

NORTHWESTERN STATE UNIVERSITY



00615243

LD
3091
.L369
A333
1997/1998
LACOLL

eral

AT A L O G

97-98



NORTHWESTERN
State University

A Member of the University of Louisiana System

Natchitoches, Louisiana

Numbers to Call and e-mail addresses at Northwestern For Information About...

Information (Telephone)	318-357-6361	
Academic Programs in:		
College of Business	318-357-5161	Smiley@alphaNSULA.EDU
College of Education	318-357-5195	Smith@alphaNSULA.EDU
College of Liberal Arts	318-357-4330	Hatley@alphaNSULA.EDU
Creative and Performing Arts	318-357-4522	Conerly@alphaNSULA.EDU
Journalism	318-357-4425	McBride@alphaNSULA.EDU
Language and Communication	318-357-6272	JacksonB@alphaNSULA.EDU
Psychology	318-357-6594	Isbell@alphaNSULA.EDU
Social Science	318-357-6195	Broadway@alphaNSULA.EDU
College of Nursing		
Cenla	318-487-5298	Cartera@alphaNSULA.EDU
Natchitoches	318-357-6776	Hodgesg@alphaNSULA.EDU
Shreveport	318-677-3100	Hayesb@alphaNSULA.EDU
College of Science and Technology	318-357-5131	Motterm@alphaNSULA.EDU
Biological Science	318-357-5323	Stalling@alphaNSULA.EDU
Chemistry and Physics	318-357-5501	Hyde@alphaNSULA.EDU
Family and Consumer Science	318-357-5587	Pierson@alphaNSULA.EDU
Health and Human Performance	318-357-5126	Wilkes@alphaNSULA.EDU
Industrial Technology	318-357-4465	Dennisw@alphaNSULA.EDU
Mathematics	318-357-4308	Brushing@alphaNSULA.EDU
Military Science	318-357-5156	NSUOTC@alphaNSULA.EDU
General College	318-357-5000	Weaver@alphaNSULA.EDU
Academic Records, Registration, and Transcripts		
Office of the Registrar	318-357-6171	Belle@alphaNSULA.EDU
Admissions and Recruiting	318-357-4503	Maggioc@alphaNSULA.EDU
Toll free numbers listed below		
Cenla Campus at England Air Park	318-487-0126	Zulick@alphaNSULA.EDU
Financial Aid		
Natchitoches	318-357-5961	NSUFINAID@alphaNSULA.EDU
Shreveport	318-677-3010	Smiths@alphaNSULA.EDU
Fort Polk Center	318-238-6445	Owen@alphaNSULA.EDU
Graduate School	318-357-5851	Gradmit@alphaNSULA.EDU
Housing	318-357-6703	Keran@alphaNSULA.EDU
Infirmery	318-357-5351	Bell@alphaNSULA.EDU
Information (Telephone)	318-357-6361	
Police (University)	318-357-5431	Rickie@alphaNSULA.EDU
Shreveport Campus	318-677-3000	Hayesb@alphaNSULA.EDU
Small Business Development Center	318-357-5611	Wilkerson@alphaNSULA.EDU
Student Activities and Organizations	318-357-6511	Henry@alphaNSULA.EDU
Student Life	318-357-5286	MooreM@alphaNSULA.EDU
Student Support Services	318-357-5901	Barker@alphaNSULA.EDU
Testing	318-357-5246	Gillisb@alphaNSULA.EDU
Tuition and Fees(Admissions)	318-357-4503	Maggioc@alphaNSULA.EDU

All written communications should be directed to the proper University office and should be addressed to:

Northwestern State University
Natchitoches, LA 71497-0002

ADMISSIONS INFORMATION
In-State: 1-800-426-3754
Out-of-State: 1-800-327-1903

NORTHWESTERN STATE UNIVERSITY OF LOUISIANA

A Member of the University of Louisiana System

NATCHITOCHES, LOUISIANA 71497-0002

GENERAL CATALOG

Vol. LXXXII

1997-1998

This *General Catalog* presents the current curricula, educational plans, course offerings, requirements and policies of this University. The provisions described in this *Catalog* do not constitute an offer for a contract which may be accepted by students through registration and enrollment in the University. The University reserves the right to change any curriculum, plan, course, requirement and policy and any other provision at any time during the student's period of study at the University.

CONTENTS

Academic Calendar, 1997-1998.....	4
Glossary	7
The University	8
Admission to the University	14
Financial Aid	17
Academic Information	21
Student Life.....	38
Academic Colleges, Departments, and Curricula	
College of Business	43
College of Education	47
General College	64
General Studies	64
College of Liberal Arts	67
Creative and Performing Arts	68
Journalism	72
Language and Communication	73
Psychology	75
Social Sciences	76
College of Nursing	83
College of Science and Technology	93
Biological Sciences	94
Chemistry and Physics	98
Family and Consumer Sciences	100
Health and Human Performance	104
Industrial Technology	106
Mathematics	108
Military Science	109
Louisiana Scholars' College	111
Graduate Studies	130
Courses of Instruction	138
The Louisiana Board of Regents	245
University of Louisiana Board of Trustees	246
Administration of the University	247
Faculty	248
Index	262

ACADEMIC CALENDAR 1997-1998

FALL 1997

AUGUST

19	Tuesday	semester begins/faculty on call
TBA		faculty institute
24	Sunday	residence halls open
19	Tuesday	advising/registration CENLA
19-20	Tuesday-Wednesday	advising/registration FT. POLK
25-26	Monday-Tuesday	advising/registration NATCHITOCHES
25-26	Monday-Tuesday	advising/registration SHREVEPORT
27	Wednesday	first day of classes ALL CAMPUSES
		late registration fee applies ALL CAMPUSES

SEPTEMBER

1	Monday	Labor Day Holiday
2	Tuesday	final day to register, add courses, make section changes and resign with 100% refund
5	Friday	final day to apply for Spring 1998 graduation
9	Tuesday	final day to resign with 50% refund

OCTOBER

14	Tuesday	final day for removal of "I" grades from previous semester
17	Friday	mid-term grades due in the Registrar's Office
24	Friday	final day to resign and drop courses with a grade of "W" or change from credit to audit

NOVEMBER

24-28	Monday-Friday	Thanksgiving Holidays
-------	---------------	-----------------------

DECEMBER

3	Wednesday	final day to resign with mid-term grades
10	Wednesday	last day of classes
11-17	Thursday-Wednesday	final examinations
15	Monday	candidate grades due by noon
18	Thursday	all grades due by noon
		residence halls close at noon
19	Friday	commencement exercises/semester ends

1997

AUGUST

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

SEPTEMBER

S	M	T	W	T	F	S
		1	2	3	4	5
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

OCTOBER

S	M	T	W	T	F	S
				1	2	3
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

NOVEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

DECEMBER

S	M	T	W	T	F	S
			1	2	3	4
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

ACADEMIC CALENDAR 1997-1998

SPRING 1998

JANUARY

5	Monday	semester begins/faculty on call
TBA		faculty institute
5	Monday	advising/registration CENLA/
5-6	Monday-Tuesday	FT. POLK
6-7	Tuesday-Wednesday	SHREVEPORT
7	Wednesday	residence halls open
8-9	Thursday-Friday	advising/registration NATCHITOCHES
12	Monday	first day of classes ALL CAMPUSES
15	Thursday	final day to register, add courses, or make section changes
16	Friday	final day to apply for fall 1998 graduation
19	Monday	Martin Luther King Holiday

FEBRUARY

17	Tuesday	final day for removal of "I" grades from previous semester
23-25	Monday-Wednesday	Mardi Gras Holiday

MARCH

13	Friday	mid-term grades due in the Registrar's Office
27	Friday	final day to resign, drop courses with a grade of W, or change from credit to audit

APRIL

6-10	Monday-Friday	Easter Holidays
13	Monday	classes resume (8 a.m.)
24	Friday	final day to resign with mid-term grades

MAY

1	Friday	last day of classes
4-8	Monday-Friday	final examinations
1	Friday	candidate grades due by 4 p.m.
8	Friday	commencement exercises/semester ends
9	Saturday	residence halls close at noon
11	Monday	all grades due by noon

1998

JANUARY

S	M	T	W	T	F	S
		1	2	3		
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

FEBRUARY

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

MARCH

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

APRIL

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MAY

S	M	T	W	T	F	S
						1
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

ACADEMIC CALENDAR 1997-1998

SUMMER 1998

MAY

14	Thursday	residence halls open
15	Friday	advising/registration
18	Monday	session one begins
19	Tuesday	final day to register, add courses, make schedule changes for session one

JUNE

1	Monday	final day to drop courses with grade of W, change from credit to audit
5	Friday	session one ends, advising/registration
8	Monday	session two begins
9	Tuesday	final day to register, add courses, make schedule changes for session two
22	Monday	final day to drop courses with a grade of W, change from credit to audit
26	Friday	session two ends, advising/registration
29	Monday	session three begins
30	Tuesday	final day to register, add courses, make schedule changes for session three

JULY

13	Monday	final day to drop courses with a grade of W or change from credit to audit
17	Friday	session three ends, advising/registration
20	Monday	session four begins
21	Tuesday	final day to register, add courses, make schedule changes for session four

AUGUST

3	Monday	final day to drop courses with a grade of W, change from credit to audit
7	Friday	session four ends, residence halls close/semester ends
10	Monday	all grades are due by noon

1998

MAY	JUNE	JULY	AUGUST
S M T W T F S	S M T W T F S	S M T W T F S	S M T W T F S
1 2	1 2 3 4 5 6	1 2 3 4	1
3 4 5 6 7 8 9	7 8 9 10 11 12 13	5 6 7 8 9 10 11	2 3 4 5 6 7 8
10 11 12 13 14 15 16	14 15 16 17 18 19 20	12 13 14 15 16 17 18	9 10 11 12 13 14 15
17 18 19 20 21 22 23	21 22 23 24 25 26 27	19 20 21 22 23 24 25	16 17 18 19 20 21 22
24 25 26 27 28 29 30	28 29 30	26 27 28 29 30 31	23 24 25 26 27 28 29
31			30 31

GLOSSARY

Academic (Scholastic) load—the total of semester hours of course work for which a student is registered in a semester or summer session.

Admission—written permission, granted by the Registrar, to register for course work at NSU.

Auditor—one who pays fees and registers for a class or classes as an observer only and seeks no credit for it.

Curriculum—an officially approved combination of courses, satisfactory completion of which may lead to a degree or other goal.

Dismissal—final termination, by proper University authority, of a student's enrollment in the University.

Elective—a course called for in a curriculum without specific identification; the student "elects" the course to be taken. The area in which the elective must be chosen is sometimes specified.

Major—a student's principal area of study, such as English or nursing.

Minor—a student's secondary area of study. Some curricula do not require the completion of a minor.

Prerequisite—a requirement that must be satisfied, often another course, before a student can take a course.

Quality Point—a numerical value assigned each of the letter grades A through F. The grade of A is valued at four quality points for each semester hour of credit in the course. B is three points per hour, C is two, and D is one. A grade of F has a quality point value of zero. These values are used in calculating a student's "grade point average" and academic standing.

Registrar—the University official responsible for compiling and keeping secure the official records of each student's scholastic achievement. The office in Roy Hall is a principal source of information and advisement on matters such as registration, scheduling, and academic standing.

Residence Requirement—a requirement that students pursuing undergraduate or graduate degrees at NSU must earn a specified number of semester hours in regularly scheduled coursework. For the baccalaureate degree, students must also earn at least 12 semester hours in the major field in upper-level courses (numbered 3000 or above) in residence at NSU.

Resignation—a student's voluntary termination of enrollment in all classes carried out in accordance with University procedures.

Scholastic probation—status of a student who is not doing satisfactory work in classes as specified elsewhere in this Catalog.

Semester hour—the numerical value of a course usually based on the number of hours spent in the class per week in a regular session.

Suspension—temporary denial to a student, by proper University authority, of permission to register for classes at NSU.

Transfer student—one who has attended another college or university prior to entering NSU.

THE UNIVERSITY

HISTORY

Northwestern State University of Louisiana stands on ground that has been dedicated to learning for well over a hundred years. Prior to the Civil War a portion of the present campus was the property of the Bullard family of Natchitoches. As early as 1856 the Bullard mansion was in use as a convent by the Religious of the Society of the Sacred Heart. The following year a school building was erected at the convent, and in 1884 the property was purchased by the town and parish of Natchitoches. Three of the four great white columns that once supported the east gable of the Bullard mansion still stand on "The Hill" and often serve as the unofficial symbol of the University.

The State Legislature by Act 51 of 1884 created a Louisiana State Normal School for the preparation of teachers. A member of the Legislature, Leopold Caspari, offered the convent site as a campus for the School with the anticipated approval of the citizens of Natchitoches. The offer was accepted, and from 1885 to 1918 the Normal School offered two years of study for the training of teachers. Baccalaureate programs were then inaugurated, and the State Constitution adopted in 1921 changed the name of the school to Louisiana State Normal College.

The resources and curricula of "Normal" grew steadily to meet the increasingly diverse requirements of Louisiana's expanding population. In 1944 the institution's excellent service in its broader role was accorded formal recognition in Act 326 of the Legislature, which changed its name to Northwestern State College of Louisiana.

Northwestern maintained and strengthened its long tradition of leadership in public service and academic endeavor and became, in 1954, the first college under the jurisdiction of the Louisiana State Board of Education to offer the Master's degree. The Specialist in Education degree was first offered in 1966.

On June 18, 1970, Governor John J. McKeithen signed the legislative act which brought the old school its greatest distinction by changing its title to Northwestern State University of Louisiana.

In 1980 the old campus quadrangle where the columns stand was entered into the National Register of Historic Places under the title "Normal Hill Historic District."

In 1984 Northwestern State University celebrated its Centennial with lectures, concerts, social events, and an effective fund raising effort that established the Centennial Development Fund. In addition to the main campus in Natchitoches, the present University has permanent facilities located in Leesville and Shreveport and offers instruction at other centers in central Louisiana.

LOCATION

The main University campus covers an area of some 916 acres immediately west of Natchitoches, Louisiana. The city is in the northwestern part of the state about 50 miles northwest of Alexandria and 75 miles southeast of Shreveport, Louisiana's third largest city.

The campus, encompassing rolling pine hills and rich river bottom land, is one of the most spacious and attractive in the South. The natural beauty of the site drew people to it even in prehistoric times. Long the home of a major Indian tribe for which it was named, Natchitoches was fortified by the French in 1714 as an outpost of their New World empire facing Spanish Texas to the west. The city today takes pride in its standing as the oldest permanent settlement in the entire Louisiana Purchase Territory. Although the fires of Civil War scarred the Cane River Country, Natchitoches escaped relatively unharmed, and many traces of its colonial and antebellum heritages remain.

Now a city of about 25,000, Natchitoches has an excellent system of public schools, numerous churches, a large modern hospital, and a progressive municipal government. Situated on the banks of the beautiful Cane River, Chaplin's, and Sibley lakes, and lying in the heart of Louisiana's lake and forest country, the city rightly may be described as colorful and unique.

The Nursing Education Center in Shreveport at 1800 Line Ave. is the residential campus for the Departments of Undergraduate Studies in Nursing and Graduate Studies and Research in Nursing. The Nursing Education Center is composed of institutional facilities including instructional areas and

administrative/faculty offices. Nursing Education maintains a satellite campus in Alexandria, Louisiana and is located at the England Industrial Airpark.

The Northwestern State University Center at Fort Polk is on LA Highway 467 approximately midway between Leesville and the main gate of Fort Polk. It occupies 160 acres of land deeded to NSU by the United States Army.

MISSION OF THE UNIVERSITY

Northwestern State University of Louisiana is a friendly, vibrant, student-oriented institution of higher learning deeply committed to preparing students to adapt to change throughout life. The arena for this preparation is a dynamic community of scholars—faculty and students—dedicated to the creation, dissemination, and acquisition of knowledge. The University places the highest premium on excellence in teaching. Effective instruction in the classroom and laboratory is the *sine qua non* of the institution. The faculty has no greater responsibility. The University seeks to complement effective instruction with sound counseling and advisement. Accordingly, the faculty and administration take an active interest in each student's progress, academic and personal.

As an open admission institution, with the Louisiana Scholars' College selective admission component, Northwestern attracts students with a wide range of backgrounds. The University takes to heart the state constitutional mandate that the goal of the public education system is "to provide learning environments and experiences, at all stages of human development that are humane, just, and designed to promote excellence in order that every individual may be afforded an equal opportunity to develop to his full potential." The University has made a substantial investment in programs aimed at aiding the academically disadvantaged student, while maintaining sound academic programs to meet the needs of the traditional college student. Additionally, with the establishment of the Louisiana School for Math, Science, and the Arts on Northwestern's main campus, the University has become more conscious of its responsibility to offer unique educational opportunities to high-achieving students. The University has assumed a major role in providing a unique college program for high ability students through the Louisiana Scholars' College.

The University's commitment to provide students a broad liberal education, grounded in the accumulated wisdom of the past, is central to Northwestern's academic mission. The core curriculum, expressly designed to accomplish this purpose, represents that body of knowledge that Northwestern holds to be essential to students seeking the baccalaureate degree. Beyond the core curriculum, and in recognition of the important role of new technologies in lifelong learning, the University has built computer applications into many courses required for degree programs at all levels. Basic to all curricula at Northwestern is the development and refinement of the student's ability to write and communicate effectively. Northwestern seeks to prepare students not only for citizenship but also for leadership. A strong foundation in the arts, sciences, and humanities is fundamental to preparation for life in a global society.

Northwestern State University places a strong emphasis on both undergraduate and graduate professional programs in business, education, and nursing, including associate degree programs in business and nursing. Historically, Northwestern has been a leader in teacher education and nursing education. It was founded as the State Normal School and was the first college in Louisiana to award the bachelor's degrees in nursing and business education.

As Louisiana's first normal school, Northwestern accepts as a primary responsibility its tradition of leadership in teacher education at both the undergraduate and graduate levels. The Nursing Education Center in Shreveport serves as a solid basis for the University to continue exercising its leadership role in nursing education. The University offers a master's program in nursing and is prepared to assume additional responsibilities in graduate nurse education. The large number of Northwestern nursing graduates who occupy statewide and national leadership positions underscores the importance of the University in nursing education.

Consistent with the state Master Plan for Higher Education in Louisiana (1984), which called for Northwestern "to develop innovative nontraditional methods of instruction to meet the needs of higher education's changing clientele," the University has implemented systems whereby courses and selected degree programs are more readily available to students beyond the traditional college and to the military population of Central Louisiana. Therefore, the University offers instruction at a number of satellite

locations, including two military installations in Central Louisiana. Northwestern plays an important part in the professional development of the men and women associated with the Army and National Guard installations of the area. The University also offers courses at the upper level toward selected baccalaureate degrees and at the graduate level toward master's degrees in business, education, and nursing at England Air Park (formerly England Air Force Base) in Alexandria.

The University also maintains a firm commitment to the economic, social, and cultural development and diversification of the state and the region. Many of Northwestern's graduate programs are reaching new frontiers in advancing knowledge and diversity. At the same time, the University maintains a strong commitment to its undergraduate business and technology-related curricula. As part of its public service and research function, Northwestern offers a number of programs to aid in the development of small businesses in the region. The University's most important contribution to economic development is the preparation of its graduates to adapt to a rapidly changing world.

In its diverse facets—from the classroom, laboratory, and clinical setting to the more leisurely pursuits of student life—Northwestern State University provides a caring, student-centered environment. The University's philosophy holds that students' needs come first and that each student's primary need is to be the beneficiary of a challenging but rewarding academic experience, augmented by cultural, social, and athletic programs and activities. The University community is committed to a campus climate in which courtesy and respect are reciprocal among students, faculty, staff, and administrators.

DEGREES OFFERED AT THE UNIVERSITY

Associate Degree Programs

Programs in: business administration; electronic technology; office administration; veterinary technology.

Associate Degree in Nursing.

Associate of General Studies.

Baccalaureate Degree Programs

Bachelor of Arts programs in: anthropology; art; criminal justice; early childhood education; elementary education; English; history; journalism; political science; special education; social science (general); social work; sociology; theatre.

Bachelor of General Studies.

Bachelor of Music.

Bachelor of Music Education.

Bachelor of Science in: accounting; advertising design; biology; business administration; chemistry; computer information systems; electronic engineering technology; home economics (general); hospitality management and tourism; industrial technology; mathematics; medical technology; physical education; physics; psychology; radiologic technology; secondary education with concentrations in: art, business and office education, distributive and business education, English, industrial arts, mathematics, science, social science, speech, vocational home economics.

Bachelor of Science in Nursing.

Graduate Degree Programs

Master of Arts programs in: art; English; history; student personnel services.

Master of Education with concentrations in: business and distributive education; counseling; early childhood education; educational leadership; elementary teaching; English education; health and physical education; home economics education; mathematics education; reading; science education; secondary teaching; social sciences education; special education, which includes gifted and talented, general, mild/moderate certification, and assessment certification; educational technology; sport administration; health promotion; and professional secondary studies: alternate certification 5th-year program, adult and continuing education.

Master of Music.

Master of Science degree in clinical psychology.

Master of Science in Nursing.

Specialist in Education degree in educational leadership and instruction.

ACCREDITATION

Northwestern State University is accredited by the commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia. Telephone number 404-679-4501) to award associate, baccalaureate, master's, and specialist's degrees. It is a member in good standing of the Association of American Colleges and also of the Association of Colleges for Teacher Education.

All degree programs at the bachelor's level in education and those leading to the Master of Education and Specialist in Education degrees are accredited by the National Council for Accreditation of Teacher Education. The Graduate School is a member of the Council of Graduate Schools in the United States. The undergraduate programs in nursing are approved by the Louisiana State Board of Nursing and all programs, undergraduate and graduate, are accredited by the National League for Nursing. The Master of Arts in Student Personnel Services is fully accredited by the Council for Accreditation of Counseling and Related Educational Programs.

All degree programs in the College of Business are accredited by the Association of Collegiate Business Schools and Programs and the American Assembly of Collegiate Schools of Business (also referred to as the International Association for Management Education). The College of Business is also a member in good standing of the National Association of Business Teacher Education. The Music program is a full member of the National Association of Schools of Music. The Industrial Technology program is accredited by the National Association of Industrial Technology.

The Chemistry program at NSU is approved by the American Chemical Society. The accreditation for the Medical Technology degree is held by each individual hospital affiliate. The Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology. The Social Work program is accredited at the Bachelor's level by the Council on Social Work Education. The Veterinary Technology program is accredited by the American Veterinary Medical Association.

The undergraduate program in Journalism has provisional accreditation from the Accrediting Council on Education in Journalism and Mass Communication.

EQUAL OPPORTUNITY AT NSU

Northwestern State University assures equal opportunity for all qualified persons without regard to race, sex, national origin, age, veteran's status, or disability, in the admission to, participation in, treatment of, or employment in the programs and activities which the University operates.

EUGENE P. WATSON MEMORIAL LIBRARY

The Eugene P. Watson Memorial Library, a three-story modular structure with a floor area of approximately 8,826 square meters, provides comfortable seating for over 800 students. Excellent individual study facilities include private carrels for use by graduate students and faculty members engaged in research. The building features a Reference Room, a Current Periodicals Reading Room, a Media Center, and informal lounge facilities for students and faculty. The Cammie G. Henry Research Center houses a significant collection of Louisiana books, archival materials, and rare books. Library personnel also maintain branch libraries at the Nursing Center in Shreveport and at NSU-Ft. Polk near Leesville.

Library resources comprise some 313,000 books and bound periodicals, more than 2,300 serial titles, a large U.S. Government documents collection, about 100,000 microforms, and over 6,000

audio-visual items. An online catalog, GENIE, facilitates the use of these materials. GENIE is one of the databases on the statewide Louisiana Online University Information System. An inhouse local area network of CD-ROM databases encourages research in journals and periodicals.

The Library employs the Library of Congress classification system to organize the general collection, locating classes A-P on the second floor and Q-Z on the third. Microforms and audio-visual items are stored in the Media Center. Information about the library and its resources is disseminated in the *Library Handbook* and in special publications issued by the Library from time to time.

WILLIAMSON MUSEUM

The Williamson Museum was founded by the NSU Alumni Association in 1921. Its name honors the late George Williamson, Professor Emeritus of Biology, who donated his extensive and invaluable collections to the Museum.

Specializing in the anthropology and geography of Louisiana and adjacent areas, the Museum strives to meet the informational and research needs of students, faculty, and the general public. Study collections are available to qualified researchers. Exhibits are open during normal school hours.

Museum facilities in Kyser Hall comprise a spacious exhibit hall, storerooms, research laboratory, Curator's office, and lecture room.

THE NORTHWESTERN STATE UNIVERSITY PRESS

The Northwestern State University Press, created in 1978, specializes in works of outstanding scholarship and merit, those which contribute to a greater knowledge and understanding of the state and region.

The imprint is controlled by the NSU Press Committee and the Director of the Press. Communications should be addressed to the Director, Northwestern State University Press, Northwestern State University, Natchitoches, LA 71497-0002.

THE SOUTHERN STUDIES INSTITUTE

Principal objectives of the Southern Studies Institute are encouragement of original research and publication of studies in fields which contribute to a greater knowledge and understanding of the South and its regional setting. Policies governing the activities of the Institute are established by its Executive Board. The Institute publishes *Southern Studies: An Interdisciplinary Journal of the South*. Communications and manuscript submissions should be addressed to the Managing Editor, Southern Studies, Northwestern State University, Natchitoches, LA 71497-0002.

CENTER FOR HISTORY OF LOUISIANA EDUCATION

As Louisiana's first "Normal School", Northwestern State University has long been recognized for its achievement in professional education. In 1977, the Louisiana Legislature designated NSU the center for the History of Louisiana Education. This was followed by legislative designation as the State Museum of Education 1991. The Center visually portrays the stages of development in public, parochial, and private education. The Center contains a comprehensive collection of books, journals, theses, dissertations, manuscripts, tapes, and other materials available to researchers. The artifacts and memorabilia have been displayed in the Teacher Education Center, Watson Library, and the Old Courthouse Museum in Natchitoches. The Museum is being expanded through foundation support and will incorporate a Hall of Distinction in Louisiana Education by the year 2000.

LOUISIANA FOLKLIFE CENTER

The Louisiana Folklife Center was established in 1976 at NSU to identify, document, and present Louisiana's traditional arts. The center has established a number of vehicles to accomplish its goals. In the summer the center presents the Natchitoches/NSU Folk Festival in Prather Coliseum. During the academic year, the center publishes *Louisiana Folklife*, produces and distributes documentary records, provides logistical support for the Folklife Society of Louisiana, and maintains a folklife archive. The center also hosts a variety of conferences dealing with various aspects of Louisiana culture and maintains both the Louisiana Folklife Database and a World Wide Web site for Louisiana Folk Artists. The center offers a library including folklife materials, over 1,200 hours of interviews and live Louisiana folk music recorded at the Natchitoches/NSU Folk Festival, and support for those wishing to study Louisiana Folk Culture.

ADMISSION TO THE UNIVERSITY

NOTE: Anyone interested in entering the Graduate School should refer to the Graduate School section of this catalog.

1. While interviews are not required for admission to NSU, prospective students are urged to visit the campus. A campus tour, with visits to admissions counselors, faculty advisors, and financial aid officers may be scheduled for any weekday. Persons with questions about admission to NSU should call, write, or visit the Office of Admissions, Northwestern State University, Natchitoches, LA 71497-0002. Telephones: local instate, 1-800-426-3754, out of state, 1-800-327-1903 or (318)357-4503. Telephone calls to the Admissions Office for information and assistance are welcomed during working hours - 8:00 a.m. until 4:30 p.m., Monday through Friday, except holidays.
2. **Applications for Admission**, including immunization forms, are required from all students who wish to enroll or re-enroll at NSU. Completed applications should be filed at least 30 days prior to the opening of the semester for which admission is desired. Suggested deadlines are July 25 for the fall, December 1 for the spring, and April 15 for the summer. Late applications are welcome, but only early applicants can expect that arrangements to receive them will be completed.

Admission to NSU shall not be denied to any applicant on the basis of race, color, national origin, sex, age, religion, handicap, or status as a veteran.

3. **An Application Fee** of \$15.00 (\$25.00 for international students) must be submitted with applications for admission. The Application Fee is non-refundable and is not applied toward any other fees.
4. **Transcripts.** Freshman students (those who have never attended any college or university) must submit a high school transcript. Applicants who earned a General Equivalency Diploma must furnish a copy of their GED certificate and test scores.

Transfer applicants and re-entry applicants who have attended another college since leaving NSU must furnish a complete, official copy of their transcript from each institution previously attended. Transfer students may not disregard previous college work and apply as freshmen, except under the provisions of academic bankruptcy. Transcripts should be requested from the registrar at each institution attended and mailed directly to the NSU Registrar's Office. Transfer applicants who do not plan to seek a degree at NSU may submit a "letter of good standing" from the last institution attended in lieu of official transcripts. All required transcripts should be requested so that they can reach the Registrar's Office early in the semester prior to desired entry.

5. **ACT/SAT Tests.** All freshman and transfer applicants with fewer than three credits in English composition and three credits in college mathematics beyond the remedial level must submit scores from the ACT Assessment or SAT. Those who do not submit scores will take the ACT tests during registration. ACT and SAT scores help determine placement in freshman-level courses and are considered in determining advanced placement and awarding scholarships. The new law (Act 412—the Stelly Bill) requires a minimum of 17 on the American Aptitude Test (ACT) or equivalent (800) on the Scholastic Aptitude Test (SAT). The ACT applies only to first-time freshmen who are residents (not international students) of other states and are seeking admission to the University.
6. **Eligibility for Admission.** Freshman applicants will be considered for admission if they graduated from an accredited or state-approved high school. Students who earned a GED may also be considered. Graduates of non-accredited or non-approved high schools may be considered for admission by passing the GED examination. Persons who are not high school graduates but are at least 21 years old may be admitted on probation as special students. Applicants may obtain further information from the Director of Admissions at NSU.

Transfer and re-entering students must be eligible to return to their former institutions to be considered for admission to NSU. A student on probation at another school may be admitted to NSU on probation. If the grades earned by a transfer student at his last school would have put him on probation if they had been earned at NSU, he will enter NSU on probation. No credit will be granted to a student by Northwestern for work done while he was suspended or dismissed from any institution.

NSU reserves the right to deny admission or re-admission to any applicant when such action is deemed to be in the best interest of the applicant and/or the university community.

7. **Admission of Current High School Students.** Under certain conditions, some students may be admitted to Northwestern prior to graduation from high school. Two programs are available:

- A. Northwestern State University invites talented high school students to enroll in the University as a means for enriching their educational experiences and, at the same time, earning credits which may be applied toward a degree upon graduation from high school. The Collegiate Program is available during each school session—fall and spring semesters and the summer term. Students pursue regular University courses. The courses for which a student may register will be based upon ACT scores, high school courses completed, high school courses still available to the student, and student's vocational goal.

Eligibility: To be accepted for the program, students must:

1. Have completed all work through the junior year of high school, (better than a 3.0 average) need no more than three units for graduation and need no more than two required units.
2. Have the recommendation of their high school principal and rank in the upper quartile of their class.

All students in the program are required to pay the usual University fees. Room and board is available in the University facilities during the summer term, but not during the fall and spring semesters for students in the program.

Applications for participation in the program should be in at least one week prior to the date of enrollment. To apply, students must submit completed application forms (collegiate application and standard undergraduate application) with \$15.00 application fee; have the principal send a transcript of high school record; have ACT scores reported to Northwestern from ACT.*

* Students who wish to participate in the collegiate program should take the ACT Assessment Battery in February of their junior year.

Applications for admission and correspondence regarding the Collegiate Program should be addressed to:

Office of Admissions and Recruiting
Northwestern State University
Natchitoches, LA 71497-0002

- B. Northwestern State University offers an opportunity for the high-ability secondary school students who have completed six semesters of secondary school to enroll at the University as full-time students. Upon earning twenty-four (24) semester hours of college credit, the student will be granted a high school diploma.

To be eligible for early admission to Northwestern State University a student must:

1. complete six semesters of high school with a B or better average.
2. have an ACT composite score of at least 25, and
3. be recommended by his high school principal.

To be admitted to the program, eligible students must complete and return an application for admission to Northwestern and a recommendation for Early Admission (this form must be completed in triplicate and each copy signed by both the student and his/her high school principal. All copies of this form and a six semester high school transcript must be mailed by the principal).

As soon as all the forms, properly completed, and an official report of ACT scores sent from ACT, have been received, the recommendation forms will be approved by the University and one copy will be returned to the applicant and one to the principal. An approved recommendation will constitute notification of acceptance. All appropriate University fees shall apply.

Applications and inquiries about Early Admission should be addressed to:
Northwestern State University
Office of Admissions and Recruiting
Natchitoches, LA 71497-0002

NSU reserves the right to deny admission or re-admission to any applicant when such action is deemed to be in the best interest of the applicant and/or the university community.

8. **Admission to Degree Programs.** There are special requirements for admission to some degree programs. The Department of Nursing lists its requirements elsewhere in this catalog. No one will be accepted for teacher certification who is ineligible to enter the school of education in which he was last enrolled. Admission to the University does not guarantee admission to a degree program.
9. **Admissions decisions** are mailed shortly after applications are received and reviewed. Favorable decisions may be revoked if information received later, such as college transcripts, indicates that the applicant is ineligible for admission.

ADMISSION OF INTERNATIONAL STUDENTS

International students may be considered for admission to undergraduate study upon submission of the following: (items 4 and 5 must be certified by an accredited professional educational credentials evaluation service based in the United States)

1. A completed Application for Admission.
2. Payment of the non-refundable application fee of \$25.00 in U.S. currency.
3. A completed Education and Financial certificate which lists all educational experiences and certifies that the applicant has sufficient funds for his educational and living expenses. (\$12,000 per year required)
4. Complete, certified true copies of both original and English translations of all secondary (high) school work, and certified true copies of both original and English translations of year-by-year mark sheets, examination results, certificates and diplomas.
5. Complete, certified true copies of original and English translations of all college work, and year-by-year mark sheets, examination results, certificates, diplomas and transcripts.
6. A completed Health Form.
7. An official copy of the applicant's Test of English as a Foreign Language (TOEFL) score and Test of Written English scores: a minimum TOEFL score of 550 is required for admission to undergraduate study.

Admission materials must be received at least 30 days prior to the beginning of the semester for which admission is desired. Because of the time required to obtain a visa after admission is granted, early application is recommended. After all materials have been received at NSU, applications will be evaluated. Graduation from a foreign high school does not guarantee admission to NSU.

International students pay the required student fees and are also assessed an International Student fee of \$60 per semester.

Due to increasing problems with currency exchange regulations, international students from some countries may be required to deposit with Northwestern up to one full year's tuition and living expenses before an I-20 for use in obtaining a student visa is issued. Applicants should not send money other than the Application Fee with the Application for Admission. Students required to place funds on deposit will be notified in the letter of admission, and the I-20 will be mailed after funds are received.

Address all correspondence to the Admissions Office, Northwestern State University, Natchitoches, LA 71497-0002, U.S.A. Telephone (318) 357-4503.

FINANCIAL AID

Financial aid is available to help students who, without financial assistance, would be unable to attend NSU. The amounts and terms of financial aid and the regulations and policies under which it is administered are subject to change without notice.

At Northwestern, student financial aid is administered by the Student Financial Aid Office, Roy Hall, Natchitoches, LA 71497-0002. Interested persons are welcome to write, call or visit the Office at any time. Office hours are from 8:00 a.m. to 4:30 p.m., Monday through Friday except holidays.

The principal categories of financial aid are:

1. Grants: gift aid awarded to students who demonstrate exceptional financial need; do not require repayment.
2. Loans: borrowed money which must be repaid, with interest.
3. Employment: money earned by working.
4. Scholarships: awards to students with good academic records; do not require repayment.

NSU participates in the following federally regulated student aid programs:

1. Federal Pell Grant.
2. Federal Supplemental Educational Opportunity Grant (SEOG).
3. Federal College Work-Study (CWSP).
4. Federal Perkins Loan.
5. Federal Family Educational Loan Programs
 - A. Federal Stafford Student Loan Program.
 1. Federal Subsidized Stafford Loan
 2. Federal Un-Subsidized Stafford Loan
 - B. Federal Parent Plus Loan

ELIGIBILITY FOR FINANCIAL AID

Eligibility for most forms of financial aid requires demonstrated financial need. Need is defined as the difference between the student's educational expenses and the amount that can be provided by the student and his or her family. Other general requirements for eligibility are:

1. Be a citizen of the U.S. or a national or permanent resident.
2. Be in good academic standing and making significant progress toward a degree.
3. Be pursuing at least three hours for the Pell Grant and six hours for student loan programs and at least 12 hours for all other programs, with the exception of the non-traditional SEOG recipient.

FINANCIAL AID PROGRAMS

Pell Grants provide amounts which vary according to financial need and resources available. Application should be made through the high school counselor or the NSU Financial Aid Office. (Not available to a person with a bachelor's degree.)

College Work-Study provides part-time jobs for students who qualify and request positions. Work-study positions are in limited numbers due to funds available.

Supplemental Educational Opportunity Grants are available to undergraduate students and are based on exceptional need as determined by Federal Student Aid Report. The amount of an award depends on need, the availability of SEOG funds at NSU, and the amount of other aid received by the student.

Perkins Loans are low-interest loans available to both undergraduate and graduate students. These loans must be repaid, and eligibility is based on need and availability of funds. The student may borrow up to \$12,000 for the duration of a program leading to a bachelor's degree. Students returning for certification in a teaching area are also eligible. A student may receive no more than \$3,000 in one academic year. A graduate student may borrow up to \$23,000, the total including any amount borrowed as an undergraduate. Repayment must begin nine months after one graduates, leaves school, or drops below half-time status.

Federal Stafford Student Loans are variable interest loans with a maximum interest ceiling set by law. Stafford loans can have interest that is subsidized or non-subsidized by the federal government. Undergraduates may borrow up to \$2,625 for the first year, \$3,500 for the second year, and \$5,500 for the fourth and fifth year. Graduates may borrow up to \$8,500 per year. Eligibility for the subsidized Stafford Loan is based on need. Eligibility for the non-subsidized is not based on need. The student must make satisfactory progress, as defined by the Financial Aid Office, in accordance with federal guidelines to continue to receive the loans. A student must file a Federal Application for Student Aid to show eligibility for all federal student aid programs.

Federal Parent Plus Loans and Federal unsubsidized Stafford loans are federal regulated loans for parents and students who need additional funds to pay college expenses. Students may borrow up to \$5,000 on the unsubsidized loan and parents may borrow up to their students cost of education after other aid has been deducted. These two loans have a variable interest rate with a ceiling that is set by law. Interest on the Parent Plus Loan must be paid in a monthly payment. Interest on the unsubsidized loan can be paid or accrued to the student loan at the end of each year. A student must be classified independent by the federal government to receive the unsubsidized loan.

State Student Incentive Grants are available to undergraduate Louisiana residents who demonstrate financial need. The student must be a full-time student with a grade point average of at least 2.0. The availability of grants is determined by state and federal funding of the program.

REQUIREMENTS FOR THE CONTINUATION OF FINANCIAL AID

Students granted financial aid must make satisfactory progress in accordance with published standards. Northwestern Satisfactory Progress Standards are printed in the current Financial Aid Data Form which each student must complete to receive financial aid. Copies of the data form or separate copies of the standards are available from the Financial Aid Office. Any student who fails to satisfy the published requirements will not be eligible for financial aid during the next year of enrollment. Progress is determined at the end of the Spring semester or at the end of any one semester if the student has only attended one semester.

FINANCIAL AID SATISFACTORY ACADEMIC PROGRESS
STANDARD CHART

Minimum Progress Standards

	Minimum Semester Hours Earned	Academic Year Hours Earned	Minimum Academic Year Overall GPA
Students with 1-29 semester hours earned:			
Full-Time Student (12 or more hrs. attempted)	9	18	1.50
3/4 Time Student (9-11 hrs. attempted)	6	12	1.50
1/2 Time Student (6-8 hrs. attempted)	3	6	1.50
Less than 1/2 Time (1-5 hrs. attempted)	must earn all hours attempted		1.50
Students with 30-59 semester hours earned:			
Full-Time Student (12 or more hrs. attempted)	9	18	1.75
3/4 Time Student (9-11 hrs. attempted)	6	12	1.75
1/2 Time Student (6-8 hrs. attempted)	3	6	1.75
Less than 1/2 Time (1-5 hrs. attempted)	must earn all hours attempted		1.75
Students with 60 or more semester hours earned:			
Full-Time Student (12 or more hrs. attempted)	12	24	2.00
3/4 Time Student (9-11 hrs. attempted)	9	18	2.00
1/2 Time Student (6-8 hrs. attempted)	6	12	2.00
Less than 1/2 Time (1-5 hrs. attempted)	must earn all hours attempted		2.00
Graduate Students:			
Full-Time Student (9 or more hrs. attempted)	9	18	3.00
Less than Full-Time (1-8 hrs. attempted)	must earn all hours attempted		3.00
Federal Student Aid will be provided for a maximum of:			
Associate Degree - Two Year	90 credit hours attempted		
* Bachelor Degree - Four Year	180 credit hours attempted		
Bachelor Degree - Five Year	200 credit hours attempted		
** Masters Degree	45 credit hours attempted		
Ph. D. Program	60 credit hours attempted		
Other Programs:			
Certification beyond B.S. Degree	45 credit hours attempted		
2nd Bachelors Degree	90 credit hours beyond 1st Bachelors		
2nd Associate Degree	45 credit hours beyond 1st Associate		
2nd Masters Degree	15 credit hours beyond 1st Masters		
Associate Degree past Bachelors	45 credit hours beyond Bachelors		

* Based on 120 hour degree program. The maximum limit shall be 180 credit hours attempted or 150% of the required hours for the degree program, whichever is greater.

** Based on 30 hour degree program.

Students in a degree program that requires more than 120 credit hours to complete that degree program may appeal for extended periods of entitlement.

TRANSFER STUDENTS

Transfer students must meet the standards of satisfactory progress stated above to receive financial aid at NSU. Students must supply academic transcripts prior to enrollment at NSU. Transfer students will not be eligible for financial aid without a copy of the transcript from the last school which they attended.

FINANCIAL AID APPEALS PROCESS

Students who fail to make satisfactory progress and lose their eligibility may appeal to the Financial Aid Appeals Committee. Appeals are accepted for all semesters except for summer sessions. Appeal forms are available from the Financial Aid Office. Financial aid appeal and academic appeal are not related.

FINANCIAL AID PAYMENTS

Financial aid funds are paid to students in the form of credits to the students account and/or in the form of checks at registration three times a year: fall, spring and summer with the exception of first year students Federal Stafford Student Loans. These checks are held for the first 30 days of attendance as directed by federal guidelines. Recipients of work-study awards receive no funds at registration. Payments are made at the end of each month of work.

HOW TO APPLY FOR FINANCIAL AID

1. Apply for admission to NSU.
2. Apply for eligibility for all federal programs with the Free Federal Application for Student Aid. Separate Applications may be required for the Federal Family Loan Programs.
3. Within four to six weeks, applicants will be mailed a Federal Student Aid Report. This report should be sent directly to the Northwestern Financial Aid Office. The applicant will then be sent a NSU Financial Aid Data Form to select the type(s) of financial aid desired (grants, loans, work-study).
4. Transfer students must submit a financial aid transcript from each institution they have attended along with an academic transcript from the last school attended.

WHERE TO APPLY

The Free Federal Application for Student Aid may be obtained from the high school counselor or the Northwestern State University Student Financial Aid Office.

WHEN TO APPLY

All required forms related to financial aid applications should be on file in the NSU Financial Aid Office by May 1 for Fall semesters, November 1 for Spring semesters, April 1 for Summer sessions. The required forms include the Federal Student Aid Report, NSU Financial Aid Data Form, all transfer students must also submit academic transcripts and financial aid transcripts from previously attended schools.

SELECTION OF RECIPIENTS

The Financial Aid Office determines need on the basis of data received on the Student Aid Reports and the NSU Financial Aid Data Form. Each student will be notified within a NSU Financial Aid Award Notification Letter. This letter must be signed and returned to the Financial Aid Office within 15 days of receipt.

OTHER LOANS

The STUDENT GOVERNMENT ASSOCIATION LOAN FUND is available to assist eligible students meet financial emergencies. These loans, not exceeding \$50, are 30-day short-term loans which have a small service charge. Eligibility for the program is restricted to full-time students who pay the SGA fee, are in good standing with the University and have no outstanding debts to the University. Information concerning these loans may be secured in the Office of the Dean of Students.

SCHOLARSHIPS

Scholarships are financial awards given to degree-seeking students who are enrolled or who intend to enroll at Northwestern State University. Scholarships are placed in two categories: Academic/Leadership scholarships and Performance scholarships.

Academic/Leadership scholarships are based on a combination of standardized test scores (ACT or SAT), high school grade point average, rank in class and participation in extracurricular activities. Applications for these scholarships may be obtained from the Office of Admissions and Recruiting, Roy Hall, Room 103. To be considered for these scholarships a student must complete and return a

scholarship application, furnish standardized test scores and a six-semester high school transcript, and apply for admission to the university. The first scholarship deadline is December 1 of each year for the following academic year. The second scholarship deadline is March 1 of each year for the following academic year.

Performance scholarships are based on talent, performance, or service criteria (e.g., members of the Spirit of Northwestern Marching Band, Demon Dazzlers, Pom-Pom Line, Yell Leaders, Music, Theatre and ROTC). Please contact the corresponding department for more information.

To maintain a university scholarship, the student must meet criteria stated in the award letter, be a full-time student and be in good standing with the university or have had an appeal granted by the Scholarship Appeals Committee. Continuation of scholarships from semester to semester is based on the semester grade point average.

Information on Athletic scholarships can be obtained by contacting the appropriate member of Northwestern's coaching staff. All athletic scholarships are governed by the NCAA rules and regulations.

SCHOLARSHIP CANCELLATION:

Academic/Leadership and Performance scholarships will be canceled automatically if the following occurs:

1. The student does not make the required grade point average.
 2. The student does not maintain full-time enrollment throughout the semester.
- There is no automatic probation period for any student on scholarship.

SCHOLARSHIP APPEALS:

Students who have had a scholarship cancellation and choose to appeal their scholarship, may obtain a University Scholarship Appeal Form from the Student Financial Aid Office, Roy Hall, room 109. Students must complete and return this form by January 15 following a fall semester cancellation and by June 15 following a spring semester cancellation.

The Scholarship Appeals Committee consists of Coordinator of University Scholarships (chair), Director of Enrollment Services, Director of Student Financial Aid and a faculty member.

The university reserves the right to revise these rules at any time.

It is the student's responsibility to review these rules on a yearly basis in the university catalog.

SCHOLARSHIP PROBATION

Scholarship Probation is only available to students who have thirty (30) hours or less. The student will be notified of their probationary status at the end of the semester if they fall within twenty-five percent (25%) of the required grade point average. The student will receive the scholarship the next semester and he/she will have to make the required semester grade point average to maintain the scholarship for following semesters.

SCHOLARSHIP CANCELLATION

Scholarships will be canceled automatically if:

1. The student has thirty (30) or less hours and is on scholarship probation and does not make the required grade point average.
2. The student has thirty (30) or less hours and makes a semester grade point average less than within twenty-five percent (25%) of the required semester grade point average.
3. The student has thirty-one (31) or more hours and does not make the required semester grade point average.

SCHOLARSHIP APPEALS

Students who wish to appeal their scholarships can obtain a Scholarship Appeals form from the Student Financial Aid Office, Roy Hall Room 109. Students must complete and return this form by January 15 following a fall semester cancellation and by June 15 following a spring semester cancellation.

Information about athletic scholarships can be obtained by contacting the appropriate member of Northwestern's coaching staff.

For a complete list of scholarships available at Northwestern State University contact the Admissions Office, Natchitoches, LA 71497-0002 or telephone (318) 357-4503; 1-800-426-3754 (instate) or 1-800-327-1903 (out of state).

ACADEMIC INFORMATION

REQUIREMENTS FOR GRADUATION

Student Responsibility

Students are personally responsible for completing all requirements established for their degree by the University. It is the student's responsibility to be informed of these requirements. A student's advisor may not assume these responsibilities and may not substitute, waive, or exempt the student from any established requirement or academic standard.

Changes in academic regulations enacted between catalog publications are published in the University newspaper and posted on bulletin boards. Students are responsible for knowing these changes.

It is the student's responsibility to make official application for graduation, using a form obtained in the office of their academic dean. The deadline for filing the completed form is near the beginning of the semester preceding the anticipated semester of graduation. Summer/Fall graduation candidates must make application at the beginning of the preceding spring semester. Spring candidates must apply at the beginning of the preceding fall semester.

Requirements for the Baccalaureate Degree

1. Complete a minimum of 120 semester hours of academic work, exclusive of physical activity and extra-curricular activity credits.
2. Earn at least 25 percent of the semester hours required for the degree through instruction at NSU.
3. Complete the senior year in residence, defined as the last 30 semester hours of course work to be counted toward the degree.
4. Earn at least 12 semester hours in the major field in upper-level courses (numbered 3000 and above) taken in residence at NSU.
5. Earn at least a C (2.0) average on all hours pursued, on all hours pursued in the major field and on all hours pursued in the minor field, if a minor is required.
6. Earn at least a C (2.0) average on all hours pursued at NSU and on all hours pursued in the major field at NSU.
7. Complete an approved curriculum. This catalog prescribes in detail the requirements for graduation in all curricula offered by the University.
8. Complete the University general education (core) requirements for the baccalaureate degree.
9. Clear all University accounts.
10. Participate in commencement exercises unless excused by the Registrar.

The University Core

Northwestern has a broadly based core curriculum that is central to the University's mission and consistent with the Louisiana Board of Regents' requirements for general education. The core encompasses the knowledge and abilities that Northwestern believes are essential to college graduates. Its requirements improve students' writing and speaking, accustom them to using computers, give them an appreciation and knowledge of the arts and humanities, equip them with mathematical skills at the level of college algebra and above, strengthen their understanding of biological and physical sciences, and develop their knowledge of health and nutrition. In addition, these requirements enhance students' problem-solving acumen, critical thinking abilities, and quantitative skills. Finally, the core stimulates independent learning, instills an appreciation of humanity and the environment, and enables graduates to be competent and contributing members of society.

Courses that meet core requirements have been designed to this purpose. The University core required in each baccalaureate curriculum includes the following:

1. Communications component (9 hours): English 1010, 1020, and three hours chosen from English 2050, 2060, 2070, 2080, 3210 (this course has a prerequisite), or Speech 1010.
2. Mathematics component (6 hours taken in pairs indicated and in sequence): Mathematics 1020 and 1060; 1020 and 1090; 1020 and 2010; 1100 (6 hours); or 1810 (6 hours).
3. Natural science component (9 hours): Three hours from Science 1010, Chemistry 1030, 1040, 1051, Chemistry 1070, 1080, 1091, Physics 2030-2031, or Physics 2510-2511. Three hours from Science 1020, Biology 1010-1011, Zoology 1230-1231, or Microbiology 2060-2061. Three hours from Science 2000, 2010, 2020, 2030, Physics 1120, or any course which includes a laboratory in biology,

botany, chemistry, geology, microbiology, physics, or zoology. Certain course combinations are not permitted. These are described in the list of Courses of Instruction.

4. Fine arts and humanities component (6 hours): Fine Arts 1040 and three hours from English 2050, 2060, 2070, or 2080.
5. Social science component (9 hours): Three hours from History 1010, 1020, 2010, 2020. Six hours from Anthropology 1510, 2010, Economics 2010, 2000, Geography 1010, 1020, 2010, History 1010, 1020, 2010, 2020, Philosophy 1010, 1020, Political Science 2010, 2020, Psychology 1010, or Sociology 1010.
6. Health and personal fitness component (4 hours): From Health Education 1010, 1090, Physical Education 1110, or one from the following: Nutrition 1020, 1030, 1050.
7. Orientation component (1 hour): Orientation 1010.
8. Computer literacy component: Various mandatory core courses require computer usage by all students.

Academic Assessment

To ensure quality in its academic program offerings and to comply with requirements of the Louisiana Board of Regents, the Commission on Colleges of the Southern Association of Colleges and Schools, and various national accrediting associations, Northwestern administers a comprehensive program of academic assessment. This includes the administration of special examinations to assess the effectiveness of general education and major fields of study in each baccalaureate degree program. Students are required to participate in academic assessment activities.

Assessment of General Education

To assess the effectiveness of the general education component of baccalaureate degree programs, Northwestern administers several subtests of the ACT/CAAP (ACT's College Academic Assessment Program) examination. These include the areas of mathematics, reading, science reasoning, and writing. Also, students majoring in Education take the Communication Skills and General Knowledge subtests of the National Teachers Examination (NTE), and students in Nursing and Radiologic Technology take the National League of Nursing (NLN) pre-clinical examination.

Assessment of Major Fields of Study

Each student completing a baccalaureate degree program at Northwestern takes an appropriate senior examination that assesses how well the program meets its objectives. Most examinations for major field assessment are normed on a large population of students completing degrees in that field.

Registration in a Degree Program

Each student entering NSU must register in a curriculum, and in order to graduate must complete satisfactorily the work required as described in the catalog in effect at the time of registration in that curriculum, or the one in effect at the time degree requirements are completed.

A student who does not attend NSU for two semesters or longer and who then returns to the University must complete the course work prescribed in the catalog which is in effect at the time of the return.

A student who transfers to another curriculum at NSU must complete the course work prescribed in the catalog in effect at the time the transfer is made.

After registering in a curriculum, a student is expected to complete the work required in that curriculum within seven years. After that time the student may become subject to current catalog requirements. Exceptions to this requirement may result from actions taken by authorities higher than the University and may arise in certain cases involving teacher certification.

Requirements for a Second Major

Students are allowed to pursue two majors simultaneously by petitioning their academic dean. If the requirements of the second major are not completed by graduation, this major is not indicated on the transcript. A second major will not be indicated if the requirements are completed subsequently. Indication of a student's major on a transcript is posted only as part of a degree.

Requirements for a Second Degree

After completion of a bachelor's degree in one major field, a student may earn a second bachelor's degree in another area of study. To do so, all requirements for the second degree must be completed,

and at least 30 semester hours must be earned in residence at NSU in addition to the number of hours required for the first degree. Courses common to both degree programs need not be repeated if grades earned are satisfactory.

Board of Regents' Certificate of Excellence

The Board of Regents shall award a Certificate of Excellence to each student who, upon completion of requirements for the baccalaureate degree, has successfully completed the Board of Regents' suggested course work in general education with a cumulative grade point average of 3.0 or better. The Board of Regents' suggested course work includes the University core curriculum with the following changes and additions:

1. The natural sciences component must be met by taking a minimum of eleven hours in required courses for majors, including laboratories.
2. At least six hours of a foreign language numbered 2000 or above must be taken. Introductory course work (or its equivalent) and advanced course work must be in the same foreign language.

Requirements for the Associate Degree

1. Complete a minimum of 60 semester hours of academic work, exclusive of physical activity and extra-curricular activity credits.
2. Earn at least a C (2.0) average in all courses used to satisfy degree requirements.
3. Earn at least a C (2.0) average in all courses taken at NSU which are used to satisfy degree requirements.
4. Earn at least 25 percent of the semester hours required for the degree through instruction at NSU.
5. Complete the University core requirements for associate degree programs: Orientation 1010; English 1010, 1020; six hours of mathematics and three hours of social sciences as prescribed in the university core requirements for the baccalaureate degree.
6. Complete an approved program. The same stipulations regarding the registration in a degree program stated above for baccalaureate programs apply to associate degree programs.
7. Clear all University accounts.
8. Participate in commencement exercises unless excused by the Registrar.

Requirements for Graduate Degrees

The requirements for the various graduate degrees are outlined in the sections describing the departmental curricula. General requirements are given in the section on Graduate Studies and Research.

MATRICULATION

Faculty Advisors

All students are advised by academic advisors. Academic advising is regarded by the University as an extension of the teaching function and, therefore, as an important responsibility of the faculty. Faculty are usually assigned to advise students who have indicated an interest in their particular field of specialization. The names of assigned faculty advisors may be obtained from the office of the appropriate dean.

Faculty advisors are available to students throughout the academic year, but their role is especially important during the registration period. The advisor will explain University academic requirements and assist the student in planning a program which satisfies these requirements. The advisor will also explore career alternatives and aid in any academic or personal problems. The student should be aware, however, that knowledge of and adherence to regulations of the University, both academic and otherwise, are the ultimate responsibility of the student.

Registration

Students begin the registration process by meeting with their faculty advisor to develop a schedule of classes. To complete the registration, the student should follow the procedure published each term in the Schedule of Classes, available in the Registrar's Office.

Maximum and Minimum Loads

The maximum amount of course work for which an undergraduate student may register in a regular semester is 21 semester hours (12 in a summer session). The minimum load for a full-time student in a regular semester is 12 semester hours (six in a summer session) unless the student is a candidate for graduation with fewer hours remaining to be taken or is pursuing a curriculum which requires fewer hours during that semester or summer session. Any exception to these maximum and minimum load limits requires the prior approval of the academic dean.

Late Registration

No student is permitted to register after the established period for late registration.

Orientation

All freshmen must take Orientation 1010 during their first period of enrollment at NSU unless credit has been received from another institution or the student has transferred in 30 credit hours or more. This course is required for graduation in any undergraduate curriculum.

Freshman English

Freshmen and undergraduate transfer students who have not completed English 1010 and 1020 must register immediately for 1010 and continue to enroll every semester and summer session until they complete 1010 and 1020. English 1010 is a prerequisite for 1020; English 1020 is a prerequisite for all higher-level English courses.

Pre-Major Requirements

Northwestern initially places each first-time (including transfer) and re-entering student in pre-major status relative to the planned major in each baccalaureate degree program as well as the Associate Degree in Nursing. The same procedure is followed for a student who changes his or her major. A student in pre-major status in a baccalaureate degree program in Education, Nursing, or Radiologic Technology is changed to major status when the student is enrolled in the clinical or professional component of the program. To move from pre-major to major status in any other baccalaureate degree program the student must complete the freshman-year requirements as outlined in the General Catalog, take the ACT/CAAP, and have an overall grade point average of at least 2.0. Students must participate in any required assessment activities, including the ACT/CAAP.

Major status must be achieved before enrolling in 3000 and 4000 level courses.

Auditing Courses

A student may audit courses under the following conditions:

1. Credit may not be earned in any course(s) audited.
2. An auditor may be excluded from a course at the discretion of the head of the department offering the course. If space in a class is limited, students taking the course for credit are given preference over auditors, even though the latter may have enrolled first.
3. A special examination for credit may not be taken in any course already audited.
4. Enrollment in any course as an auditor must be accomplished prior to the close of the last day to register for credit. The change from credit to audit status may be made until the end of the drop period.
5. A student who audits a course is subject to attendance regulations. If the auditor accumulates unexcused absences in excess of ten percent of the total classes in the course, the instructor may drop the student with a grade of X.
A person not enrolled for credit in any other course may audit one or more courses each semester subject to both the above conditions for auditing courses and the following additional conditions:
6. Permission to register in courses for audit must be obtained from the Registrar's Office.
7. All prescribed fees must be paid.
8. Auditors are subject to all University regulations related to discipline and personal conduct.
9. Auditors may use the Library and Book Store. Dormitories, meal tickets, and other student privileges may be used with permission of the Vice President for Student Affairs.
10. Vehicles must be registered with the University Police, and the student parking fee must be paid.

Registration for Graduation Only

A student may register “for graduation only” if all requirements for the degree(s) sought have been met. All course work pursued must be completed, and all grades must be submitted to the Registrar before registration for graduation only will be considered.

Registration for graduation only will not be processed by the Registrar until the academic dean has reviewed the request and has certified that the conditions stated above have been met.

Registration for graduation only must be accomplished prior to the last day to add courses. This date is determined by the Registrar.

Classification of Students

Minimum semester hour requirements for the classification of students are as follows:

	Class	Semester Hours
Freshman	1	0
Sophomore	2	30
Junior	3	60
Senior	4	92

Definition of a Full-Time Student

A full-time student is one who is taking at least 12 semester hours of scheduled work in a regular semester, at least six hours of work in a summer session, or at least six hours in an eight-week term. The minimum load for a full-time student in a regular semester is 12 semester hours (six in a summer session) unless the student is a candidate for graduation with fewer hours remaining to be taken or is pursuing a curriculum which requires fewer hours during that semester or summer session.

Definition of a Part-Time Student

A part-time student is one who is taking less than 12 hours of work in a regular semester or less than six hours in a summer session or eight-week term.

Definition of Hours Pursued

Hours pursued are defined as all courses completed and those courses not completed in which the grade of WA, WB, WC, WD, or WF is received on a semester basis. “W” plus grades are not used to compute cumulative grade point averages except for students who are on probation and then, only to determine academic status.

Developmental Education

A comprehensive developmental education program that offers college preparation courses in reading, English, mathematics, and study skills is provided. A variety of support services is also available to assist students in their studies. The major purpose of the program is to train students in the basic skills needed to compete at the college level.

Students are placed in developmental education classes on the basis of American College Test scores. Students who do not have ACT scores will be placed in beginning-level developmental education classes.

Classes include Reading 0910, 0912, 0920 and 0922; Mathematics 0910, 0912, 0920 and 0922; English 0910, 0912, 0920 and 0922; and Academic Skills 1010. Students are provided specialized instruction, laboratory facilities, tutoring, academic advising, personal counseling, and workshops on college survival skills.

Developmental education students must enroll in and complete any developmental course requirements during the first three semesters of enrollment at Northwestern. Achievement of a letter grade of C or better is required to exit a developmental education course or to progress to a higher level of that subject area. If, after three semesters, a student has not completed all developmental mathematics and English requirements, the student will not be eligible to continue at the University. An exception may be made for a student with an overall average of 2.0 and only one developmental deficiency, subject to the approval of the appropriate dean. Otherwise, in order to be readmitted, a student must submit ACT scores or Northwestern placement scores indicating placement beyond the developmental level in both English and mathematics. A developmental education student may not enter freshman-level mathematics until developmental mathematics courses are completed or freshman-level English until developmental English courses are completed.

Any student who has not progressed beyond Reading 0910 and 0912 will not be allowed to re-enroll in the University after three semesters at Northwestern. Students barred from Northwestern under these conditions may be readmitted in a subsequent semester upon submission of an enhanced ACT composite score of 18 or above or a Northwestern placement test score indicating placement beyond Reading 0910 and 0912.

Developmental education courses do not fulfill degree requirements at Northwestern; they are extra hours added to the student's transcript. Developmental education courses are used to compute a student's grade point average.

Many students reach college without adequate academic preparation. For these students the developmental education program can play an important part in the achievement of a degree or the satisfaction of these students' postsecondary education aspirations.

General Studies

The General Studies Curriculum (U34) is offered for students entering the University who have not selected a major area of study. This program provides special assistance to participants while they choose a major field.

Military Obligations and University Study

NSU is aware that students who are members of the armed forces are subject to calls to duty which may interrupt their studies, and that some students wish to pursue officer-producing programs that may conflict with University work. Northwestern State University has a written policy that guides the process for withdrawal of a student activated for military service. Please contact the Registrar's Office for a copy of the policy.

Northwestern International Programs

Course offerings at foreign study sites are offered by the University. The classes are usually summer offerings with instruction by regular Northwestern faculty members. Academic classes and sites vary each year.

The University is a member of the International Student Exchange Program (ISEP), a network of 150 institutions of higher education that exchange students between the United States and 25 countries around the world, including members from Africa, Asia, Australia, the British Isles, Canada, Europe and Latin America. Through ISEP, students at NSU may be placed at ISEP member institutions abroad. ISEP participants are fully matriculated at their host institutions and enroll in courses and sit for examinations with regularly enrolled students. ISEP exchange can take place in any academic discipline and at any academic level.

Students who choose to study at a host institution where the language of instruction is not English will be required to demonstrate proficiency in the foreign language. ISEP exchanges normally last for a full academic year, but some institutions make one-term or summer exchanges available. Students can apply to extend their exchange period in certain circumstances for as long as an additional academic year.

ISEP students pay regular tuition and fees, including room and board, at NSU and receive equivalent benefits at their host institution. Most forms of financial aid can be applied toward participation in ISEP.

Credit earned in the ISEP program can be applied toward a degree at NSU. In some cases, enrollment in a degree program at an ISEP host institution can be arranged.

Additional information about the program can be obtained from the ISEP Coordinator, Mr. Thomas Whitehead, in Room 103 Kyser Hall.

Cooperative Occupational Work Program

Northwestern State University has a Cooperative Occupational Work Program whereby students can gain on-the-job practical training while they pursue their formal education. University credit, as well as pay, is earned by the students as they participate in these institutionally planned and supervised work experiences.

For further information contact The Office of Cooperative Education, Northwestern State University, Natchitoches, Louisiana 71497-0002 or telephone (318) 357-5161.

ACADEMIC REGULATIONS

Adding, Dropping, Repeating, and Substituting Courses

Under certain conditions, permission to add, drop, repeat, or substitute courses may be secured.

1. Courses may be added during the registration period as described in the schedule of classes.
2. A student may drop a course or courses from the institution with grades of "W" prior to the date specified in the official University academic calendar. After that specified date, students may not drop a course with a "W" grade.
3. Students in the armed forces who must drop a class because of a military obligation must submit to the Registrar a statement to that effect from their commanding officer to avoid the usual academic penalties.
4. A student who wishes to drop all courses in which he or she is enrolled must accomplish an official resignation from the University.
5. Courses dropped with a grade of "W" are not refunded at any time and will not be credited to a student's account.
6. When a course is repeated at Northwestern State University or transferred to NSU, all grades earned will be used in computing grade point average. This means that all attempts at a repeated course will be computed into the cumulative (overall) grade point average and all course grades will appear on the transcript.
7. Authorization for a student to substitute a course for another specified in a curriculum requires the approval of the student's advisor, the head of the department which offers the curriculum, and the student's academic dean.

NOTE: Courses in which failing grades have been received will not be waived or substituted.

Class Attendance

Class attendance is regarded as an obligation as well as a privilege, and all students are expected to attend regularly and punctually all classes in which they are enrolled. Failure to do so may jeopardize a student's scholastic standing and may lead to suspension from the University.

Each instructor shall keep a permanent attendance record for each class. These records are subject to inspection by appropriate university officials.

Faculty members are required to state in writing and explain to the student their expectations in regard to class attendance during the first week of classes.

A student shall submit excuses for all class absences to the appropriate instructor within three class days after the student returns to the respective class. The instructor may excuse the student for being absent and shall accept an official university excuse.

A student who is tardy for a class meeting should resolve the matter with the instructor at the end of the class period during which the tardiness occurred. Otherwise, the instructor may treat the tardiness as an absence.

Students are responsible for all classwork missed, regardless of the reason for the absence. Immediately upon the student's return to class a conference should be arranged with the instructor to determine what action, on the student's part, is necessary to compensate for the time lost and materials missed due to the absence.

When a student enrolled in a course numbered 2999 or below receives excessive unexcused absences (ten percent of the total class meetings), the instructor may recommend to the appropriate dean that the student be dropped from the rolls of that class and given an appropriate grade. Students with an unsatisfactory performance record in the course shall receive an F grade. Other students may receive an X grade indicating that they were dropped for excessive absences.

In any level class, the instructor may establish a grading policy that incorporates attendance requirements.

Dismissal of Students from Classes

Any instructor may, under certain conditions, dismiss a student from a class. The action requires the approval of the head of the department which offers the course and the academic dean. It will be done only if all academic personnel concerned feel that all other reasonable measures to correct the situation are inappropriate or ineffective.

The instructor who wishes to dismiss a student from one of his or her classes must prepare and sign a written notice of dismissal and submit it for approval to the department head and dean. The notice is to include the grade recommended by the instructor (either W or F). If the department head and dean approve the dismissal, copies of the notice will be given immediately to the Registrar and the student.

If a dismissed student feels that the action taken was improper, an appeal may be made to the instructor and/or others concerned. The student may also appeal to the Admission, Credits, and Graduation Council. This appeal must be initiated at the office of the Registrar within five days after the date of the dismissal notice.

If the dismissal is approved following proper review and consultation, the Registrar will enter the appropriate grade on the student's record.

Resignation from the University

At some time it may be necessary for a student to leave school. If this should occur, the student should not leave without completing an official resignation that will protect his or her academic standing. Please note carefully:

1. Students who drop all the courses in which they are registered must officially resign from the University.
2. Students must initiate the resignation process in the Academic Dean's Office by completing a resignation/cancellation form.
3. A student may resign from the institution with grades of "W" prior to a date specified in the official University academic calendar. After that specified date, students may not drop a course or resign with a "W" grade.
4. Students who leave the university without accomplishing an official resignation will have grades of F recorded in all courses in which they are registered. The student will be listed as dismissed from NSU and will forfeit all claims to refunds.
5. Students under the age of 18 must secure their parents' written approval.
6. Students 18 years of age or older may resign without parental approval.
7. Students who cannot resign in person should notify the Registrar's Office in writing of their intent to resign. They should also notify the Registrar in writing if another person is going to complete resignation proceedings for them.
8. A student attending classes at a campus other than Natchitoches should check with the administrative office at that campus.
9. Any student who resigns during the specified midterm period will be assigned the grades earned in each course at midterm (WA, WB, WC, WD, WF). These grades will be used to determine academic status for those students who are on academic probation. Midterm dates are determined by the Registrar.

Students who have extraordinary cases with extenuating circumstances may submit to their academic dean a letter of appeal, along with documentation to substantiate the case. Extraordinary cases do not include dissatisfaction with an anticipated grade or the decision to change a major.

Approval of an appeal for dropping a course or resigning after the published date may be granted by the student's dean for reasons stated below and only if the reason can be officially documented to show direct due cause. If approval to drop a course is granted, the student must also have been passing the course immediately prior to the hardship, and must have applied for the approval immediately after the hardship or illness ended. The grade assigned shall be a "W". If the dean allows the student to resign, a "W" grade shall be assigned in all courses. If the appeal is approved, the dean will notify the instructor and the registrar. Examples of appealable cases are as follows:

1. **Illness/Injury**—The student must provide a letter on official stationery from the attending physician stating that the illness or injury will render the student unable to complete the course, or will cause the student to miss a significant number of days so as to make it difficult to complete the course. A hospital bill may also be used.
2. **Death of an immediate family member** which caused undue hardship and renders the student incapable of completing the course—The student must provide a copy of the death certificate, obituary stating relationship to the deceased, or letter from the attending clergy.
3. **Natural disaster or exceptional traumatic event**—The student must provide a written explanation of extenuating circumstances providing this event causes the student undue hardships.
4. **National Defense**—The student must provide a copy of official military orders to the Registrar's Office.

(Contact the Registrar's Office for a copy of the written policy that guides the process for withdrawal of a student activated for military service.)

Refund Policy

A student who resigns from the University may receive a refund from one of three refund policies. These policies are as follows:

I. STANDARD UNIVERSITY RESIGNATION REFUND POLICY

- a. A 100% refund of registration, out-of-state, laboratory, and student association fees will be made when a student officially resigns on or before the last day to register for credit.
- b. A 50% refund of registration, out-of-state, and laboratory fees only will be made when a student officially resigns within seven calendar days after the last day to register for credit.

The following charges are non-refundable: alumni fee, parking permit fee, and installment plan charge.

Student insurance is refundable only if requested in writing to Health Services within the first two weeks after the opening date of the regular semester's registration with submission of proof of coverage under another policy.

II. PRO-RATA RESIGNATION REFUND POLICY

Pro-rata refunds apply to a student who is attending the University for the first time, receives Federal Title IV aid (Pell Grant, SEOG, Perkins Loans, Unsubsidized Federal Stafford Loan, Unsubsidized Direct Stafford Loan, Subsidized Federal Stafford Loan, Federal Direct Plus Loan, and Federal Direct Stafford Loan), and whose withdrawal date is within the first 60% of the semester for which the student has been charged. The University will deduct from this refund calculation an administration fee, not to exceed the lesser of five percent of institutional charges or \$100.00. Board charges are refundable according to the lesser of the calculated federal amount or the amount of unused credit.

III. FEDERAL RESIGNATION REFUND POLICY

This refund policy applies only to a continuing student who receives Title IV assistance (Pell Grant, SEOG, Perkins Loans, Unsubsidized Federal Stafford Loan, Federal Direct PLUS Loan, and Federal Direct Stafford Loan), and who resigns from the University during the first 50% of the semester for which the student is charged. The University will deduct from this refund calculation an administration fee, not to exceed the lesser of five percent of institutional charges or \$100.00. Board charges are refundable according to the lesser of the calculated Federal amount or the amount of unused credit.

Courses dropped with a grade of "W" are not refundable at any time and will not be credited to a student's account. In some cases, the refund policy will result in a reduction of charges and not a "cash" refund.

Scholastic Probation, Suspension, and Readmission Regulations

There are three categories of academic standing: academic good standing, academic probation, and academic suspension (one semester or one year). Although students will usually receive official notification of academic standing, such notice is not a prerequisite to students being placed in one of the above categories. It is the responsibility of each student to ascertain academic status prior to the beginning of the next enrollment period. Professional departments or divisions within the university may set additional academic standards for progression in their programs. The word "semester" as applied in this policy, includes summer terms.

ACADEMIC PROBATION

1. A student will be placed on academic probation whenever the cumulative grade point average is 10 or more quality points below a 2.0 average ($A=4.0$); that is, the total quality hours multiplied by two, exceeds quality points earned by 10 or more. (e.g. Student has 15 quality hours and earns 21 quality points. Multiply $15 \times 2=30$; subtract 21 from $30=9$; student is not on probation because nine is less than 10). The definition of "quality hour" is any semester hour taken for which a grade of A, B, C, D, F, I, or Z is assigned. (Grades of I and Z are treated the same as the grade of F until resolved).
2. Once placed on academic probation, a student will remain on probation (as long as each semester grade point average is at least 2.0) until a cumulative grade point average of 2.0 or higher is achieved. While on probation, a student must earn at least a 2.0 semester grade point average to remain in school.

- Once a cumulative grade point average of 2.0 or higher is achieved, a student will be placed in academic good standing.
- Transfer students are placed on academic probation if the cumulative grade point average is 1.0 or more quality points below a 2.0 average.

ACADEMIC SUSPENSION

- A student on academic probation will be suspended at the conclusion of any semester in which the student fails to earn a semester grade point average of at least 2.0. First-time freshmen will not be suspended prior to two semesters of enrollment.
- A student who has been suspended for the first time will be suspended for a period of one semester. All subsequent suspension periods are for one full calendar year.
- A student suspended for the first time at the end of a summer term must remain out of school during the fall semester. A student suspended for the first time at the end of the fall semester must remain out of school during the spring semester. A student suspended for the first time at the end of the spring semester may apply to attend the summer term. If the application is approved and the student attends the summer term and increases the cumulative grade point average to 2.0 or higher, the student will be allowed to return in the fall semester. If the student does not raise the cumulative grade point average to 2.0 or higher during the summer term, the suspension for the fall semester is in effect.

READMISSION FROM SUSPENSION

- A student who has been scholastically suspended from the university may appeal to the Registrar for a waiver of suspension provided the student can document evidence of extenuating circumstances and provide justification for suspension waiver. Appeals may be granted or denied.
- A student suspended from Northwestern may not enroll in another university within the Board of Trustees system, but may enroll in a community college with approval of both this university and the community college. Credits earned under these conditions will not be accepted for degree credit at this or any other system university. While a student is under suspension, no credits earned by the student at another institution may be used toward a degree at this university.
- A student who has completed a suspension period may re-apply for admission to the University. Applications for readmission may be granted, delayed, or denied.

Academic Appeals

Students who have been suspended for scholastic reasons and feel that their work was adversely affected by circumstances beyond their control may request that the period of their suspension be waived. Appeal forms are available in the Registrar's office. Academic appeals for suspension must be submitted to the Registrar's office no later than the date set by the Registrar each semester.

Academic Bankruptcy

Undergraduate students may, at the time of application for admission or readmission to the University, file for academic bankruptcy if they have not been enrolled in any college or university for a period of at least three calendar years immediately preceding their intended enrollment at NSU.

The following conditions will apply:

- The student will forfeit the use of all college or university credits earned prior to the date academic bankruptcy was declared, including credits earned through any type of advanced placement program.
- The student's record will be inscribed with the notation "Academic Bankruptcy Declared (date)."
- No courses taken prior to the declaration of Academic Bankruptcy will be used in the calculation of the student's grade point average and may not be used to fulfill requirements of any kind.
- The student will be ineligible for special academic honors conferred by the University except as justified by the entire academic record, which includes courses taken prior to the declaration of Academic Bankruptcy.
- A student who has declared Academic Bankruptcy will be considered as an entering freshman and will be subject to all policies for placement in courses. Specifically, such students will be required to take the American College Test and/or University placement tests to determine placement in English, mathematics and reading courses.
- These policies concerning Academic Bankruptcy pertain only to Northwestern State University.
- A declaration of Academic Bankruptcy is final and irreversible and may only be exercised once in a student's academic career.

8. Declaration of Academic Bankruptcy does not pertain to accumulated financial aid history. Accumulated semester and award limits include all semesters of enrollment, both before and after the declaration.

To request Academic Bankruptcy, a student must submit a completed Application for Admission, required Application Fee, Petition for Academic Bankruptcy, and all official transcripts of prior college or university work to the Registrar's Office at least two weeks prior to the beginning of the intended semester of enrollment. After reviewing all records to determine that the student has submitted all required transcripts and has met the three-year period of non-enrollment, the Registrar's Office will verify, sign the request, and forward the material to the appropriate dean. The dean will ensure that the student is counseled, act on the request, and return the material to the Registrar's Office.

GRADES

Grades and Quality Points

Letter grades based on the quality of work are assigned in most courses at NSU. Grades generally used are A (excellent), B (good), C (average), D (poor), and F (failure). A grade of I (incomplete) in a course means that the student's work in that course is incomplete due to circumstances beyond his or her control, as determined by the instructor, and that completion of the work could lead to a passing grade. Any grade of I must be removed by completion of all course work within 60 calendar days after the official closing date of the term in which the grade was assigned. If the work is not made up within that time, the grade of I will change to F.

A course may be repeated; however, all grades earned will be calculated in the cumulative grade point average.

If a course is failed at NSU, credit can be obtained for the course only by repeating the course at NSU. If a course is taken at NSU in which a specific grade is required and that grade is not obtained, the course must be repeated at NSU.

The grade of W is used to represent an official withdrawal from a course. The grade of X is used to indicate that the student was dropped by the academic dean for excessive absences.

Grades are entered on academic records at the end of each semester or summer session. Semester grades will be mailed to students at their permanent addresses.

The quality of work done by a student is also measured in terms of "quality points." One who earns an A in a course is awarded four quality points for each semester hour of the course. For example, an A in a three-hour course represents 12 quality points. Quality points earned for other grades are three quality points per hour for each B grade, two per hour for each C grade, and one per hour for each D grade. Grades of F, I, W, and X yield no quality points. Quality points provide a simple method of calculating the average quality of a student's academic work. A student's overall cumulative grade point average is obtained by dividing the total quality points by the total number of quality hours.

Under certain limited conditions, grades of S (satisfactory) or P (pass) may be awarded. All credits earned or awarded through special examinations for credit, CLEP, military service, and those accepted on the basis of foreign transcripts are recorded with grades of S. Grades of P and F may be awarded for credit earned in courses only after prior approval by the University Curriculum Review Council.

Appeal of Reported Grade

UNDERGRADUATE STUDENTS

Undergraduate students who receive grades they believe do not reflect the quality of their work may appeal these grades within 120 calendar days following the academic period in which the grades were earned. The procedure for appeal is as follows:

1. The student should consult the instructor to see if an understanding can be reached. The student is entitled to an explanation as to how the grade was determined and to examine any tests, papers, or other information pertinent to the appeal.
2. If the conference is not satisfactory, the student should secure a Grade Appeal Form from the office of the dean of the college in which the course was offered. The student may discuss the appeal informally with the dean if the student so desires.
3. In filing a formal appeal, the student should complete the appeal form, stating the nature of the appeal, providing a detailed description of the justification, and requesting a specific action. Since the written appeal will be the basis for the ultimate decision, the student should ensure that it is clear, complete, and inclusive of all documentation the student wishes to have considered in the

appeal process. It is the student's responsibility to present written evidence that the instructor made an error or acted arbitrarily or capriciously in assigning the grade.

4. The student should submit the completed appeal form to the instructor for review. If a solution is not found, the instructor should provide a written response to the student's appeal, providing documentation as to how the grade was determined. The instructor's response should include a copy of the course outline or syllabus provided to the student's class at the beginning of the semester or term.
5. After having met with the instructor and obtaining his or her written response to the appeal, the student may submit the form to the head of the department in which the course was offered. Following a review of the student's appeal and the instructor's response, the department head should provide his or her written opinion of the appeal along with any additional, pertinent information.
6. If the student is unsatisfied with the opinion of the department head, he or she may submit the appeal to the academic dean of the college offering the course. If the student is unsatisfied with the opinion of the dean, he or she may submit the written appeal with all signatures to the Registrar. At that time, a meeting of the subcommittee on grade appeals for the Council on Admission, Credits, and Graduation will be called to review and make a final decision on the appeal. The Registrar will notify the student of the decision.

Semester Examinations

Final examinations are scheduled at the end of each regular semester and summer session. Any departure from the published examination schedule requires prior approval of the Provost and Vice President for Academic Affairs.

No student may be excused from a final examination. Absence from a final examination, other than in a case of extreme emergency, is construed and recorded as failure in the course.

Transcripts

A transcript of work completed by a student at NSU will be furnished without charge within approximately three working days after receipt of a written, signed request addressed to the Registrar, provided the student is not indebted to the University. Processing of transcript requests at the end of a semester may take longer. Written requests are required for all transcripts.

CREDITS

Transferred Credit

Hours earned at an institution accredited by a regional committee on colleges, or the equivalent, will be accepted at NSU with the following exceptions.

1. A course failed or in which a required grade is not met at NSU, then repeated at another institution will not be accepted as credit for the course. The course will transfer as an elective. Credit for the course can only be obtained by repeating the course at NSU.
2. No more than 65 semester hours of credit earned at a two-year institution may apply toward a degree at Northwestern, and these hours may apply as freshman and sophomore-level courses only.
3. The academic dean will determine how transferred credits may be applied to degree requirements. Courses that do not correspond to courses offered at NSU will transfer as elective credits.
4. Even though some courses may not transfer toward the degree, all hours pursued are used in determining the cumulative grade point average.
5. While a student is under suspension, no credits earned by the student at another institution may be used toward a degree at this university.

Transfer students must request the Registrar of each college or university previously attended to forward to NSU Registrar's Office a complete and official transcript of work. An official transcript is defined as one mailed directly from one institution to another. It bears the institution's seal, the signature of the registrar, and the date of issuance.

Transfer Credit Practices of Designated Educational Institutions, published by the American Association of Collegiate Registrars and Admissions Officers (AACRAO), is used as a basis for determining the accreditation status of other institutions. Credits earned at a non-accredited institution will not be accepted at NSU. The student may demonstrate knowledge of the subject through tests or by other suitable means. This determination of acceptability will be made by the Registrar and the academic dean.

If a student has earned elective credits for courses from an accredited institution and feels that the content of the courses might be acceptable to NSU degree requirements, the courses will be reviewed by the Registrar and the academic dean.

Any student enrolled at NSU must secure the academic dean's permission in advance to take required course work at another institution.

Credit for Correspondence Work

Any student who wishes to take courses by correspondence at another institution must first secure the permission of the academic dean. If the course(s) is in the student's major or minor field, the authorization of the department head must also be secured. The following regulations govern the taking of correspondence courses by students enrolled at NSU:

1. Permission to take courses by correspondence will be granted only to students who are or have been enrolled at NSU.
2. Permission to take correspondence courses will not be granted to students suspended or on probation.
3. As a rule, no student may take more than one correspondence course at a time.
4. Correspondence courses will not be authorized in excess of a full load of resident course work unless there are intervening vacant periods of time, such as summer vacation.
5. No more than one-fourth of the course work done to complete requirements for an undergraduate degree may be earned by correspondence.
6. When authorization has been secured, the student must make all arrangements for completion of the work with the offering institution.
7. The student must also make arrangements with the offering institution to take the final examination under the supervision of the Testing Center at NSU. The final grade must be reported directly to the Registrar at NSU by the offering institution.
8. Grades earned by correspondence may not be used to replace grades earned at NSU and cannot be used to make up grade point deficiencies at NSU.

NOTE: No more than one-half of the credit required for an undergraduate degree may be met through an accumulation of credits from all categories of testing, correspondence, and extension work.

Credit by Examination

Northwestern recognizes that students enter college with varying degrees of preparedness. Students with superior skills and academic accomplishments have the opportunity to obtain college course credits by examination. After enrollment at Northwestern, a satisfactory performance recorded in semester hours, with no letter grade on the student's transcript. The hours of credit will not be used in the computation of grade point averages or considered in determining academic hours, probation, or suspension.

While students are encouraged to utilize all types of credit by examination programs, there are certain limitations. Credit by examination may be awarded only to students who are currently registered in other courses during a semester. A maximum of thirty semester hours of credit may be earned through any one type of program. In addition, not more than half of the semester hours of credit required for an undergraduate degree may be fulfilled through an accumulation of credits from the categories of testing, correspondence, and extension work. Credit by examination will not be awarded for a course which was previously pursued beyond the mid-point of an academic period by the student. Credit earned by examination may not be used to reduce residence requirements. A special examination for credit may not be taken in any course already audited.

American College Testing (ACT): Beginning freshmen at Northwestern may be eligible for semester hours of credit on the basis of their English and Mathematics ACT subscores.

Advanced Placement Program (AP): Sponsored and coordinated by the College Board and Educational Testing Service (ETS), the AP program consists of college-level courses and standardized examinations for high school students. Each May, AP exams are administered in the high schools to students who have participated in this program. Fees are determined by, and are payable to, ETS. Recipient code number 6492 should be used by students to have their scores reported to Northwestern. A complete list of the AP tests and credit is available in the Testing Center at NSU.

College-Level Examination Program (CLEP): Any prospective or enrolled student who attains satisfactory scores on Northwestern State University approved Subject Examinations of the College Level Examination Program (CLEP) administered by or under the auspices of the Educational Testing Service (ETS) for the College Board is eligible to receive credit on the basis of such tests. Registration forms must be received by the Testing Center at least three weeks prior to each test date. Students may also arrange to take CLEP tests at other centers and use recipient code 6492 to have their scores reported

to Northwestern. Students applying for credit for NSU-approved CLEP Subject Examinations must have scores sent directly to Northwestern State University from CLEP. Students transferring to NSU must have CLEP scores from the previous institution sent directly to NSU. CLEP scores will not be used from the previous institution's transcript. (Military service veterans who took CLEP as part of the DANTES program must have CLEP scores reported directly to the University from DANTES).

A CLEP Subject Examination should be taken well in advance of the semester during which the student would normally register for the course involved. Examinations are given on Wednesday of the third week of each month excluding December and February, at Northwestern. A complete list of the Subject CLEP tests is available in the Testing Center. CLEP registration materials may be obtained from any national test center or the Educational Testing Service, Princeton, New Jersey.

Northwestern's Advanced Standing Program: Advanced Standing Examinations are offered by the academic departments at Northwestern to eligible freshmen with ACT composite scores of 25 or above. These students are invited to attend Credit Connection, the annual spring testing day at Northwestern, for the opportunity to earn credit hours through this program.

Northwestern's Challenge Examination Program: The academic departments extend to enrolled undergraduate students the opportunity to "challenge" virtually any course offered by the University. These examinations, administered by the departments, may not be repeated.

Undergraduate students interested in taking a special examination must register for the examination on or before the last day to register for classes during regular registration. Please follow these procedures for allowing undergraduate students to register for a special examination.

1. The student must contact the appropriate department head to get a special examination card. If the department head approves the special examination, the card must be completed and signed by the department head.
2. The advisor should sign the special examination card if he/she approves the course selection.
3. The student must then take the card to the Cashier's Office and pay the non-refundable fee of \$10.00 for each special examination. The fee must be paid prior to registering for the examination.
4. The student must take the completed special examination card and the receipt for payment to the Registrar's Office. The Registrar's Office will register the student for the examination. The student may not register for the regular course and a special examination for the same course.
5. A student must register for the special examination course during early or regular registration, but may take the examination before the last day of classes during the semester.

NOTE: Only the Office of the Registrar will register students for special examinations. If a student gets enrolled in a special examination by any other means the registration will be considered invalid and will be canceled.

Credit for Extra-Curricular Activities

Credit may be granted in some activities such as band, chorus, ensemble, orchestra, dance line, and others. These courses may be repeated as many times as desired, but no more than eight hours of credit earned in such extra-curricular activities may be applied toward fulfillment of degree requirements.

Credits for Military Educational Experiences

Military experiences (PMOS and Service Schools) will be evaluated after a student earns six hours of credit at NSU. Credit is awarded in accordance with recommendations set forth by the American Council on Education (ACE). The fee is \$15.00 (check or money order) and the evaluation placed on the student's academic record within 60 days of requesting the evaluation.

The Community College of the Air Force transcript (CCAF) and the Army/American Council on Education Registry Transcript (ARRT) are treated as a regular college transcript and no fee is charged for their evaluation. Students seeking credit for experiences not listed on the ARRT will be required to provide a Request for Evaluation of Military Experiences (DD Form 295) and pay the \$15.00 fee. Duplicate credit, upper level credit, and vocational credit will not be awarded. Upper level credit may be considered when a student reaches junior status, and the credits requested satisfy curriculum requirements.

Credit is also allowed for satisfactory completion of the following proficiency examinations:

CLEP General (An overall score of 500 or higher on each test).

CLEP Subject

Dantes Subject Standardized Tests (DSST). Official copies of test results or a notarized "true copy" must be provided before test results can be considered. NSU accepts ACE recommended score.

Servicemembers Opportunity College

Because of its efforts to serve the educational needs of servicemembers and their dependents, NSU has been designated a Servicemembers Opportunity College. As a member of the Servicemembers Opportunity College Associate Degree (SOCAD) and Bachelor Degrees for Soldiers (BDFS) programs, NSU has committed itself fully to support and comply with SOC principles and criteria. Student Agreements for SOCAD and BDFS curricula will be prepared for all military personnel and military family members who request such an agreement. The agreement will be completed in accordance with the following guidelines:

1. The student must be a soldier on active duty or a family member of an active duty soldier.
2. The student needs to complete a minimum of six hours in residence at NSU before an agreement is finalized.
3. All transcripts of previous college work and a completed evaluation of military experiences must be on file before an agreement is prepared.
4. The agreement will be prepared for curriculum networks authorized in the SOCAD and BDFS Handbooks only.
5. The current university catalog, to include approved curriculum changes, will have precedence over the SOCAD and BDFS Handbooks when differences exist due to updates not shown in SOC Handbooks.
6. The original copy of the Student Agreement will be forwarded directly to the Army Education Center for distribution to the soldier. The original copy of a Student Agreement for family members will be mailed to the student.

HONORS

Honor List

A student who makes at least a B (3.0) average on all hours pursued and completes at least 12 semester hours (six in a summer session) will be named on the Honor List, provided the student earns no grade below C. A graduating senior taking less than the minimum load is eligible for the Honor List if he or she is taking all work required for graduation.

A student who makes at least a 3.5 average on all hours pursued and completes at least 12 semester hours (six in a summer session) will be named on the Dean's Honor List, provided the student earns no grade below C.

A student who makes a 4.0 average on all hours pursued and completes at least 12 semester hours (six in a summer session) will be named on the President's Honor list.

A student who has earned at least an overall B (3.0) average on all work pursued at all colleges attended and has made at least a B (3.0) average on all work pursued at NSU will be listed on the Honor List at commencement.

Scholastic Honors Program

Northwestern State University is home to the Louisiana Scholars' College, the state's designated selective-admissions honors college in the liberal arts and sciences. The broad, multidisciplinary focus of the Scholars' College offers students of superior scholastic ability the opportunity to develop an individualized degree program of enhanced academic rigor or the chance to pursue a traditional major in the Colleges of Business, Liberal Arts, or Science and Technology coupled with a comprehensive, four-year, integrated course of study in the liberal arts and sciences. While the program is academic in focus, Scholars' College students, faculty, and staff form a distinct community on campus, and freshmen reside in Boozman Hall, the College's honors dormitory.

Incoming students whose standardized test scores (ACT or SAT) indicate high scholastic ability will be invited to apply for admission by the Director of the College. Inquiries and applications from others who feel qualified for admission are welcome. Transfer applications will be considered.

For more information on the College's curriculum, please refer to the listing in this catalog for the Louisiana Scholars' College. In general, courses in the College's Common Curriculum are open only to students enrolled in the Scholars' College. However, the College does offer accelerated study in French, German, Latin, and Spanish to all NSU students and offers approximately half of the courses required for the Minor in Philosophy. Advanced courses in all disciplines are open to qualified students.

Graduation with Special Honors

Scholastic honors represent the highest form of recognition that can be bestowed upon a student by a university. As a means of acknowledging the efforts and accomplishments of students whose scholastic performances are most worthy, NSU is pleased to grant special distinction to graduating seniors who meet or surpass the standards described below. To be eligible for such distinction, students must have earned no grade lower than a D, must have spent at least their junior and senior years in residence at NSU, and must have completed at least 65 hours of regular course work at NSU.

Students eligible by the above criteria who have overall grade point averages of at least 3.70 and less than 3.79 will be recognized as graduating *cum laude*. Those with grade point averages of at least 3.80 and less than 3.89 will graduate *magna cum laude*. Those with grade point averages of 3.90 or higher will graduate *summa cum laude*.

All grades earned, including all earned in repeated courses, are used in computing eligibility for Special Honors.

No grades earned by special examination will be used in computing eligibility for special honors nor may they be used to reduce residence requirements.

Students who have declared Academic Bankruptcy will be ineligible for special academic honors except as justified by the entire academic record, which includes courses taken prior to the declaration of Academic Bankruptcy.

Student Residence Regulations for the Colleges and Universities Under The State Board of Education

Because resident classification is an important part of the fee determination, admission regulations, and other policies of the system institutions, it is important that system institutions have fair and equitable regulations which can be administered consistently throughout Louisiana. It is the responsibility of the student to provide system institutions with such evidence as deemed necessary to establish his residence status.

A resident student for tuition purposes is defined as one who has abandoned all prior domiciles and has been domiciled in the State of Louisiana continuously for at least one full year (365 days) immediately preceding the first day of classes of the term for which resident classification is sought. Domicile is defined as an individual's true, fixed, and permanent home and place of habitation at which the individual remains when not called elsewhere for labor, studies, or other special or temporary purposes, and the place to which the individual returns after an absence. A nonresident student for tuition purposes is a student not eligible for classification as a resident.

The individual's physical presence within this state for one year must be associated with the substantial evidence that such presence was with the intent to maintain a Louisiana domicile. Physical presence within the state solely for education purposes without substantial evidence of the intent to remain in Louisiana will not be sufficient for resident classification regardless of the length of time within the state.

The residence status shall be determined in accordance with Board rules and shall be based upon evidence provided in the application for admission and related documents. Residence status shall be determined by the Office of the Registrar and/or admissions officer after the completed Application for Admission has been submitted. The rules shall be based primarily on the location of the home and the place of employment. Residence status may not be acquired by an applicant or student while residing in Louisiana for the primary purpose of attending school. Residence status is not determined for students registered for three semester hours or less. The following conditions may be used in determining residence status:

1. An applicant living with his parents is classified as a resident if the parents have established a bona fide residence in Louisiana. Ordinarily a parent is considered to have established a residence in Louisiana if he actually resides and is employed full-time in the state. A parent who is unable to be employed or who is a housewife may be considered to have established a residence if there is convincing evidence that the person continuously resides in Louisiana. If only one parent qualifies as a resident of Louisiana, the student shall be classified as a resident provided that student resides with the parent who is a resident of Louisiana. An individual who resides in Louisiana and is employed full-time in another state may be classified as a resident. In such a case, appropriate documentary evidence shall be presented.
2. A student residing with his parents who enrolls as a nonresident shall be classified as a resident if his parents move to Louisiana and acquire a residence as defined in these regulations.

3. A student may be declared a resident if either parent is a graduate of the institution which he attends.
 4. A person may be classified as a resident of Louisiana at the end of twelve consecutive months of residence if he has been employed in Louisiana and if during that period he has not been registered in an educational institution for more than six semester hours or its equivalent in any semester. A person who is unable to be employed and who has not been registered in any educational institution for more than six hours or its equivalent in any semester, may acquire residence in Louisiana if there is convincing evidence that he continuously resided in Louisiana for 12 consecutive months immediately preceding registration.
 5. A student who is married to a Louisiana resident may acquire the residence status of his or her spouse.
 6. A person who resides in Louisiana for at least two years, exclusive of military service, and then moves to another state or foreign country shall retain the right to enroll himself or any of his dependents as a resident for a period equal to the number of years he resided in Louisiana, but the right shall expire upon the person's residing for a period of two years in another state or foreign country.
 7. A member of the armed forces currently stationed in Louisiana and his dependents shall be classified as Louisiana residents. A serviceman who was stationed in Louisiana immediately prior to his release from active duty may enroll himself or his dependents as residents during a period not to exceed six months after the date of release provided that his term of active duty shall have been no less than 12 consecutive months.
 8. A member of the armed forces who was a resident of Louisiana immediately prior to entering the armed forces shall retain the right for himself or any of his dependents to be classified as a resident as long as he is in the armed forces and for a two-year period after leaving the armed forces.
 9. A resident of Louisiana shall not lose the right to be classified as a resident during periods of employment in a foreign country.
 10. An alien who has been lawfully admitted to the United States for permanent residence as an immigrant (proof of such status shall be possession of his Form I-151 Alien Registration Receipt Card or passport officially stamped "approved as resident alien") and who has established a residence under any of the foregoing provisions shall be declared a resident of the state.
- The armed forces, for tuition purposes, is considered to be that of the U.S. Army, U.S. Navy, U.S. Air Force, and U.S. Marines. The National Guard and Reserves are not included in the definition.

Appeals Committee

The president of each institution shall be authorized to appoint a Residence Rules Appeal Committee. Any student classified as a nonresident may appeal his classification to the committee. Interpretations on residence qualifications may be submitted to the Board Staff for clarification.

Incorrect Classification

All students classified incorrectly as residents are subject to reclassification and payment of all nonresident fees not paid. If incorrect classification results from false or concealed facts by the student, the student is also subject to University discipline.

STUDENT LIFE

FEES AND EXPENSES

Information concerning fees and expenses may be obtained from the Office of Admissions, Northwestern State University, Natchitoches, LA 71497-0002.

All fees and charges are subject to change without notice.

PAYMENT OF REGISTRATION FEES

All fees and charges assessed by the University in connection with registration are due in full on scheduled fee payment dates. Students may, however, elect to pay certain fees, room charges, and meal charges in installments. Arrangement for the Installment Plan must be made with the Fiscal Affairs Office/Student Accounting Section. Students electing to pay by installments must sign a Schedule of Payments Agreement at registration and will be assessed a \$30 non-refundable installment charge.

Students who have not paid all fees in full nor negotiated a Schedule of Payment Agreement within seven days of the "Last Day to Register for Credit" (within seven days of the first class day for Interim Classes) will be assessed a \$30 non-refundable charge.

Students not on an approved installment plan who increase their registration fees, room charges, meal charges, or other charges, after the registration process and who do not pay the increase in full within two days after the changes are made, will be assessed a \$30 installment charge.

Students who have not paid in full per their Schedule of Payment Agreement will be referred to the University's collection agency and to local credit bureaus for collection.

Payments may be made by check or money order payable to Northwestern State University or by Visa or MasterCard. For deadlines and mail-in instructions consult the schedule of fees for the semester of planned enrollment.

HOUSING AND LIVING ACCOMMODATIONS

NSU provides spacious, furnished residence halls, and unfurnished apartments for married students on the Natchitoches campus. Applications for residence hall rooms or student apartments and questions about housing should be addressed to the Coordinator NSU, telephone (318) 357-6703.

The Board of Trustees for State Colleges and Universities requires that "all unmarried undergraduate students must live in campus dormitories. Exceptions to this policy are made for those students who present convincing evidence that substantial hardship for financial, medical, or other sound reasons will occur if the policy is enforced."

COUNSELING AND CAREER SERVICES

Counseling and Career Services provides free and confidential services and counseling to Northwestern students. The Center is comprised of the Office of Career Planning and Placement, the Office of Counseling and the Drug and Alcohol Prevention Program. Counseling and Career Services seeks to ease the transition from high school to college and to strengthen and enhance individual development for the purpose of college and life-long success.

SECURITY PROCEDURES

Northwestern State University Police Officers are commissioned by the Louisiana Department of Public Safety. Section 1805 of Title 17 of the Louisiana Revised Statutes holds these officers responsible for maintaining general order and extends to them the powers of arrest. NSU Police currently employs eleven full-time officers and four part-time student officers. NSU Police also employs students as part-time campus walkers equipped with police radios. All full-time police officers are required to complete a "Basic Law Enforcement Training Course" certified by the Council on Peace Officers Standards and Training.

The Office of Vice President for Student Affairs is responsible for Security and University Police Services. NSU Police respond to all calls for assistance giving priority to medical emergencies, fire alarms, or a crime in progress. To place a call for assistance, call NSU Police at 357-5431. The radio-telephone operator will relay the call to an officer on patrol via radio.

DISCIPLINE

Disciplinary procedures governing University students are administered by the Vice President for Student Affairs. Disciplinary problems may be referred to a student-faculty discipline committee appointed by the President of the University. Students are expected to conduct themselves at all times in a manner consistent with standards prescribed by the University. Specific disciplinary due process procedures and the NSU Code of Conduct appear in the Student Handbook.

Members of the NSU campus community must be prepared to display a Northwestern State University identification card upon proper request of a duly designated authority.

ACCESS TO AND UTILIZATION OF STUDENT RECORDS (PRIVACY ACT)

NSU policy on the release of information on students is based on the premise that a student's record is confidential and must be protected from those who would use it for other than legitimate purposes. At the same time, the policy must be flexible enough so as not to hamper the student or the University in the pursuit of legitimate endeavors.

Release of information on any student ordinarily will be made only on the written request or authorization of that student. This policy also applies to the issuance of transcripts. Telephone requests for transcripts will not be honored nor will requests for transcripts made by the parent, spouse or prospective employer of an adult student except on the authorization from the student. The parent of a student under 18 years of age may be provided a copy of that student's transcript for personal use on written request. Transcripts may be issued on written requests to institutions from which a student has graduated or transferred, institutions to which a student transfers, or to organizations which sponsor a student, provided the student concurs in the request.

Students may not inspect and review the following: financial information submitted by their parents; confidential letters and recommendations associated with admissions, employment or job placement, or honors to which they have waived their rights of inspection and review; or education records containing information about more than one student, in which case the institution will permit access only to that part of the record which pertains to the inquiring student.

Northwestern State University is committed to following the guidelines of the Family Educational Rights and Privacy Act of 1974. The only information ordinarily released concerning students will be that considered "Directory Information." NSU defines this as name; address; telephone number; major field of study; participation in officially recognized activities and sports; weight and height of members of athletic teams; attendance; degrees, awards, and honors received, including naming to honor rolls; and the previous educational agency or institution attended.

NSU maintains only those student records necessary for the conduct of business. Information in student records will be released to outside investigating agencies only with the written consent of the student involved. Once consent has been received by the University, information requested from academic records of students, students' permanent folders (containing admission credentials, transcripts, etc.), and students' personnel records may be released to properly identified investigators through authorized staff personnel in the Office of Vice President for Student Affairs. The University is obliged to provide information on students pursuant to court orders or subpoenas.

The University recognizes that research is a fundamental component of its overall mission. Occasionally, such research involves the use of students and data extracted from student records. Permission to conduct such research must first be obtained from the person in charge of the involved discipline. Authorization to utilize students must be obtained from the Committee on Protection of Human Subjects in Research. Permission to use student records must be secured from the Vice President for Student Affairs. Every effort will be made to ensure the anonymity of identifying information.

Records of disciplinary actions taken by the University against students are maintained for intramural purposes, and information relating thereto will be released to inquirers only with written authorization of students concerned. Notices of suspension for non-academic reasons will be a permanent part of the transcript, and will be governed by the same release-authorization requirements as the total transcript.

Faculty members may review the academic records of their students to the extent that such reviews serve legitimate educational interests.

At least once a year NSU will publish in the student newspaper (The Current Sauce) and the Alumni Columns, and will broadcast over the student radio station KNWD, the fact that certain records are kept on students, that these records are available to students, and that students have the right to challenge the contents of these records. The types of educational records kept on students at NSU are as follows:

1. **Instructors.** A record is maintained on each of his students by the instructor. Such items as attendance, test grades, reports, etc., are noted by the instructor. The instructor treats this information in a confidential manner, and a student's marks in the class can be divulged only to the student.
2. **Academic Deans.** The academic dean keeps the matriculation record of the student. Some incidental materials may be kept (such as newspaper articles, honors, a supervising teacher's evaluation of a student teacher, etc.). No one has access to these records except the dean or a designated agent of the dean. These records are unofficial and can be reviewed in the dean's office.
3. **Academic Advisors.** Upon matriculation at the University, each student is assigned an academic advisor who maintains a record of the student's academic progress. If the student changes majors, this record is transferred to the new advisor. The material in this record is of an academic nature, indicating the past and present matriculation record, current academic status, and curriculum. Only the academic advisor has access to this record, and it can be reviewed by the student in the academic advisor's office. These records are unofficial. They are placed in an inactive status if the student's education is interrupted.
4. **The Vice President for Student Affairs maintains disciplinary records and miscellaneous administrative records including Student Government Association Loans and Student Insurance.** The student can review these records in the vice president's office. Only authorized Student Affairs staff have access to these records, which are routinely destroyed three years after the student leaves the University.
5. **Student Infirmary.** The on-campus resident is encouraged to furnish a medical information form which includes current and past medical history. Records are kept on medical problems reported by the student and on treatment procedures. The only people who have access to these records are the University physicians and nurses. Every effort is made to protect the physician-patient relationship and to safeguard all confidences. The student cannot review these records but a student's personal physician, acting on the student's behalf, can review them.
6. **Registrar.** The Registrar is the keeper of the official academic record of the student. The student's application for admission to the University and other materials of an academic nature are kept in this office. The academic records in the Registrar's Office are permanent and can be reviewed by the student. This includes records on all veterans receiving assistance from the Veterans Administration.
7. **Financial Aid Office.** All students who are receiving scholarships, loans from state and federal sources, or who are student workers and receive some financial assistance through the University have records in this office. The student can review all of his or her records.
8. **Residential Services Office.** The Office of Auxiliary Services maintains disciplinary records and other housing data. Only authorized Student Affairs staff have access to these records which are destroyed three years after the student leaves the University. Students may review these records in the Office of Director of Auxiliary Services.
9. **Counseling and Career Services.**

Career Planning and Placement: Career Planning and Placement maintains records on students who register with the office and students whose test results are referred for interpretation. Students who register with the office authorize Career Planning and Placement to release credentials files to prospective employers. Students may view the complete file (resume, letter of reference, and transcript) except when the right to see references has been waived. The right to view references may be reinstated only through written approval from the reference. Placement files are made inactive or destroyed after the director feels that the student may no longer be adequately served by the center.

Counseling and Drug and Alcohol Prevention Programs: All records are strictly confidential and are secured. Records may only be released to other professionals with written consent from clients. Information may be released to professionals when the client poses danger to herself/himself or others or in some cases when subpoenaed by a court of law.

10. **Testing Center.** The Testing Center maintains a record of test scores submitted to the University and the results of the University's Advanced Standing Examination and the English Proficiency Examination. These records are available to the student, faculty, advisor, academic dean, and other authorized University personnel concerned with the student. Scores are not released to anyone other than authorized University personnel except on a request by the student.

Appeal

NSU shall provide each student an opportunity for a hearing to challenge the contents of the student's educational records in order to ensure that the records are not inaccurate, misleading, or otherwise in violation of privacy or other rights of students, and to provide an opportunity for the correction or deletion of any inaccurate, misleading or otherwise inappropriate data contained therein. The University will attempt to settle disputes with students regarding the content of the student's education records through informal meetings and discussions. When these informal means are not satisfactory to the student or the University, more formal proceedings will be conducted. On the written request of the student to the University concerning the inaccuracy of material contained in the student's record, a board composed of the Vice President for Student Affairs, a representative of the Faculty Senate, the appropriate dean, a representative of the heads of academic departments and a representative of the Student Government Association will hear the complaints and make a recommendation to the President of the University. Hearings shall be conducted within five working days following receipt of the request for the hearing. If any member of the hearing board is involved in the case in question, the President of the University will select an individual who does not have a direct interest in the outcome of the hearing. The student or the University is to be afforded a full and fair opportunity to present evidence relevant to the issue raised. The recommendation shall be rendered in writing to the President of the University for his consideration, and his recommendation will be communicated to the parties involved within ten working days after conclusion of the hearing. If the recommendations are unsatisfactory to the student, the student may place with the education records statements commenting on the information in the records, or statements setting forth any reasons for disagreeing with the decisions of the hearing panel. The statements will be placed in the education records, maintained as part of the student's records, and released whenever the records in question are disclosed.

CONTINUING EDUCATION

The University, through its Division of Continuing Education, offers programs designed for people of every age who are interested in continuing their education. These programs are credit and non-credit which provides for life-long learning opportunities. The credit program approved by the Board of Regents is offered through the University's eight off-campus sites and is designed to serve the needs of students in Northwestern State University's service area. The off-campus sites are located in Coushatta, Jena, Jonesville, Mansfield, Many, Marksville, Vidalia and Winnfield. The satellite campuses are Fort Polk, England Air Park and the Shreveport Nursing Center. Credit courses are listed in the University Catalog and taught by faculty members in the appropriate academic area. Northwestern State University also awards credit for selected telecourses offered by Louisiana Public Broadcasting. Course offerings are dependent on the location due to restrictions set by the Louisiana Board of Regents. The goal of Continuing Education is to provide access to all students who seek an educational experience through traditional and non-traditional methods of teaching.

The non-credit program offers short courses and community services for those not interested in formal degree programs. Non-credit controls the University's awarding of continuing education units (CEU's). The University follows national guidelines set forth in the Commission of Colleges' document *C.E.U. Guidelines Criteria*. The non-credit area offers options for all ages. For more information, call Continuing Education at (318) 357-5682.

STUDENT ACTIVITIES AND ORGANIZATIONS

Since a well-rounded education at NSU is more than attending classes, a wide range of extra-curricular activities is offered to satisfy students' needs. These activities are not separate and apart from the academic life; they serve to increase the total experience.

Activities at NSU are selected to suit the needs and interests of the students. Events involving the entire student body include concerts, dances, movies, ball games, exhibits, and forums featuring national figures in both formal and informal discussion. These and many other activities are planned and presented by the students themselves, serving on committees and with organizations.

Approximately 90 chartered student organizations are available to students. Offering something for everyone, these organizations give students ample opportunity to become involved in planning activities, making new friends, developing leadership qualities, and receiving recognition for a job well done. Included are governmental, academic, professional, service, religious, social sororities/fraternities and special interest groups. A DETAILED LIST OF ALL NSU ORGANIZATIONS IS PRINTED IN THE NSU STUDENT HANDBOOK. Questions about organizations may be referred to the Director of Student Activities and Organizations.

Northwestern offers a wide variety of recreational facilities for college students, including three gymnasias, eight tennis courts on campus, the Natatorium (indoor swimming pool), Chaplin's Lake for canoeing and fishing, and the Student Union. In addition to the areas on campus, a marina on Sibley Lake is available for sailing and water skiing.

The Outdoor Recreation Complex is designed especially for Northwestern students. An Olympic-sized pool and four lighted tennis courts form the heart of the Complex, which is surrounded by Demon Hills (a nine-hole golf course). Campus organizations hold various social functions at the Recreation Complex Pavilion during the year.

Complementing a wide range of extra-curricular activities is the Intramural Program. About 70 percent of Northwestern's students participate in the comprehensive year-round program, which is coordinated by a staff of professionals. Intramural activities include team sports, individual sports, leisure sports, and special events. Dorm wings, sororities and fraternities, campus organizations, and independent groups of students form teams. The Intramural Building houses four modified racquetball courts, a gymnasium, and table tennis and billiard rooms.

These activities are supported by the University because they contribute strongly to the education of the student and provide excellent avenues for self development. First priority is given to NSU students and chartered organizations in scheduling events. Questions concerning Student Activities should be directed to the Director of Student Activities and Organizations.

OFFICE OF SERVICES FOR STUDENTS WITH DISABILITIES

The Coordinator works directly with all faculty and staff, providing in-service training in understanding of disabilities and the requirements of the Americans with Disabilities Act. The services for students with disabilities include making reasonable adjustments necessary to eliminate discrimination on the basis of disability (for example, extending time limits on examinations, allowing lectures to be tape-recorded when disabilities impair a student's ability to take notes, providing scribes for students with motor impairments, and providing readers for tests and specially trained tutors). Provisions are also made for registration assistance, interpreters, mobility assistance, and many other accommodations.

INTERCOLLEGIATE ATHLETICS

Northwestern State University sponsors intercollegiate programs for both men and women. In order to participate in the varsity athletic programs and receive athletically related aid, a student must conform to the applicable rules of the National Collegiate Athletic Association (NCAA) and the Southland Conference (SLC). In addition, the student-athlete must demonstrate good academic standing by being enrolled in 12 or more hours, and demonstrate satisfactory progress by fulfilling the requirements of NCAA By-law Article 14, as stated in the NCAA manual. For information regarding participation, call NSU Compliance at 318-357-4152.

Northwestern sponsors the following sports: Men—cross country, indoor and outdoor track; football; baseball; basketball; golf; Women—cross country, indoor and outdoor track; volleyball; softball; basketball; tennis; soccer.

COLLEGE OF BUSINESS

Room 201D, Russell Hall
318-357-5161

Dean: Barry Smiley, *Professor*

Professors: Aby, Bacdayan, Creighton, Durlabhji, C. Simpson, Worley

Associate Professors: Briscoe, Cooley, Elliott, Fusilier, Kromis, Palko, P. Simpson

Assistant Professors: Barnett, Bechtel, Jackson, R. Jones, McDonald, S. Roach, S. White, J. Williams

Instructors: D. Jones, Kilcoyne, Wilkerson

Mission of the College of Business

The mission of the College of Business is to deliver a high quality, broad based undergraduate education in business with a highly qualified faculty that is dedicated to teaching, community service and intellectual contributions. The College strives to be responsive to the rapidly changing business environment and supportive of the needs of our following constituencies: both traditional and nontraditional students, alumni, regional businesses, the University and the State of Louisiana. We aspire to instill the value of lifelong learning and ethical behavior in the student constituency to enhance their success in an ever-changing, global economy.

Degrees Offered Through the College of Business

Bachelor of Science in Accounting

Bachelor of Science in Business Administration

Bachelor of Science in Computer Information Services

Associate Degree in Business Administration

Associate Degree in Office Administration

Entrance Requirements for Four-Year Programs

To be admitted to a four-year program in the College of Business, a student must complete all courses listed in the first year of the curriculum with a grade point average of at least C on all courses pursued. No 3000 or 4000 level courses in the College of Business may be taken by business majors until this requirement is met. At least 50% of business credit hours required for baccalaureate degrees in the College of Business must be earned at Northwestern State University.

Bachelor of Science in Accounting

Accounting Major Requirements: (66 semester hours) Students seeking a major in Accounting must complete 66 semester hours, within the 128 semester hour Accounting curriculum, which include Accounting 2000, 3060, 3080, 3180, 3190, 3200, 4020, 4080, six semester hours of accounting electives; Computer Information Systems 1800; Business Administration 2120, 3250, 3260, 3270; Management 3220, 3580, 4300; Marketing 3230; Office Administration 2200; Economics 3100; Finance 3090.

Accounting Minor Requirements: (21 semester hours) Accounting 2000, 2010, 3180, 3190, six semester hours of accounting electives, three semester hours of advanced accounting electives.

Curriculum for Bachelor of Science in Accounting (101)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Computer Information Systems 1800	3	Accounting 2000	3
English 1010, 1020	6	Behavioral science elective ³	3
Health and personal fitness ¹	4	Business Administration 2120	3
History ¹	3	Economics 2000, 2010	6
Mathematics 1020, 2010	6	Electives-academic ²	3
Orientation 1010	1	English literature ^{1 3}	3
Psychology 1010	3	Fine Arts 1040	3
Science ¹	3	Office Administration 2200	3
Speech 1010	3	Science ¹	6
	32		33

THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Accounting 3060, 3080, 3180, 3190.....	12	Accounting 3200, 4020, 4080.....	9
Business Administration 3250	3	Accounting electives.....	6
Economics 3100.....	3	Business Administration 3260, 3270	6
Elective-academic ²	6	Electives-academic ²	3
Management 3220, 3580.....	6	Finance 3090.....	3
Marketing 3230.....	3	Management 4300.....	3
	33		30

Total Semester Hours for Degree: 128

Footnotes:

¹ Refer to University core requirements.

² Excludes all courses offered in the College of Business.

³ Select from anthropology, philosophy, political science, psychology, or sociology.

Bachelor of Science in Business Administration

Business Administration Major Requirements: (72 semester hours) Students seeking a major in Business Administration must complete 72 semester hours, within the 128 semester hour Business Administration curriculum, which include Accounting 2000, 2010; Business Administration 1040, 2120, 3250, 3270; Computer Information Systems 1800; Economics 2000, 2010; Finance 3090, 4200; Management 3220, 3580, 4300; Marketing 3230; Office Administration 2200; three semester hours of business electives, 21 semester hours of advanced business electives.

Business Administration Minor Requirements: (non-business majors) (21 semester hours) Accounting 2000, 2010; Management 3220; Marketing 3230; Economics 2000, 2010; three hours of advanced business electives.

Economics Minor Requirements (21 semester hours) Economics 2000, 2010, 3200, 3300, 4500, six semester hours of advanced economics.

Management Minor Requirements (21 semester hours) Management 3220, 18 semester hours of advanced management electives.

Marketing Minor Requirements (21 semester hours) Marketing 3230, 18 semester hours of advanced marketing electives.

Pre-Law students should ensure that English 3200, 3210 or 3230, Philosophy 2030, three hours of political science, and three hours of history are included in their program. (See the Pre-Law advisor)

Curriculum for Bachelor of Science in Business Administration (110)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Business Administration 1040	3	Accounting 2000, 2010.....	6
Computer Information Systems 1800.....	3	Business Administration 1040, 2120	3
Elective-Academic	3	Economics 2000, 2010.....	6
English 1010, 1020	6	English literature ¹	3
Fine Arts 1040.....	3	Health and personal fitness ¹	2
Mathematics 1020, 2010.....	6	History ¹	3
Orientation 1010	1	Psychology 1010.....	3
Science ¹	6	Office Administration 2200	3
	31	Science ¹	3
		Speech 1010	3
			35

THIRD YEAR	SEM. HRS.
Advanced business electives ¹	6
Business Administration 3250, 3270	6
Business elective ²	3
Elective-Academic	6
Finance 3090	3
Health and Personal Fitness ¹	2
Management 3220.....	3
Marketing 3230.....	3
	<u>32</u>

Total Semester Hours for Degree: 128

Footnotes:

¹ Refer to University core requirements.

² A business elective is any course in business administration, accounting, economics, finance, management, marketing, or computer information systems.

³ An advanced business elective is any 3000 or 4000 level business administration, accounting, economics, finance, management, marketing, or computer information systems course.

⁴ Excludes all courses offered in the College of Business.

⁵ Select from anthropology, philosophy, political science, psychology, or sociology.

FOURTH YEAR	SEM. HRS.
Advanced business electives ³	15
Behavioral science electives ⁵	3
Electives-academic ⁴	3
Finance 4200	3
Management 3580, 4300.....	6
	<u>30</u>

Bachelor of Science in Computer Information Systems

Computer Information Systems Major Requirements: (63 semester hours) Students seeking a major in Business Administration must complete 63 semester hours, within the 128 semester hour Business Administration curriculum, which include Computer Information Systems 1030, 1040, 2070, 2020, 3030, 3980, 3990, 4000, 4040, 4220, 4600; Business Administration 2120, 3250, 3270; Management 3220, 3580, 4300; Marketing 3230; Office Administration 2200; Finance 3090; Accounting 2000, 2010.

Computer Information Systems Minor Requirements: (21 semester hours) Computer Information Systems 1030, 1040, 2020, 3030, 4000, 4030, 4220, 4600.

Curriculum for Bachelor of Science in Computer Information Systems (102)

FIRST YEAR	SEM. HRS.
CIS 1030, 1040	4
English 1010, 1020	6
Fine Arts 1040.....	3
Health and personal fitness ¹	4
Mathematics 1020, 2010.....	6
Orientation 1010	1
Psychology 1010.....	3
Science ¹	3
Speech 1010	3
	<u>33</u>

SECOND YEAR	SEM. HRS.
Accounting 2000, 2010.....	6
CIS 2070, 2020, 3030	9
Economics 2000, 2010.....	6
English literature ¹	3
History ¹	3
Science ¹	6
	<u>33</u>

THIRD YEAR	SEM. HRS.
Business Administration 2120, 3250, 3270	9
CIS 3980, 3990	6
English 3230	3
Management 3220, 3580.....	6
Marketing 3230	3
Office Administration 2200	3
	<u>30</u>

FOURTH YEAR	SEM. HRS.
CIS 4000, 4040, 4220, 4600	11
Electives ²	9
Finance 3090	3
Management 4300.....	3
Philosophy 2030.....	3
	<u>29</u>

Total Semester Hours for Degree: 125

Footnotes:

¹ Refer to University core requirements.

² Excludes all courses offered in the College of Business.

Associate Degree in Business Administration
Curriculum for Associate Degree in Business Administration (717)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Academic elective ¹ (lower level)	3	Business Administration 2250	3
Accounting 2000, 2010	6	Computer Information Systems 1800	3
Business Administration 1040	3	Economics 2000, 2010	6
English 1010, 1020	6	Management 2500	3
Finance 2150	3	Merchandising 2210, 2220 or 1000/2000 level business electives	9
Marketing 2200	3	Office Administration 2200	3
Mathematics 1020, 1060	6	Speech 1010	3
Orientation 1010	1		30
	31		

Total Semester Hours for Degree: 61

Footnotes:

¹ Excludes all courses offered in the College of Business.

Associate Degree in Office Administration
Curriculum for Associate Degree in Office Administration (718)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Academic elective ¹ (lower level)	3	Accounting 2000, 2010	6
Computer Information Systems 1800	3	Business Administration 2250	3
English 1010, 1020	6	Economics 2000	3
Mathematics 1020, 1060	6	Management 2500	3
Office Administration 1010, 1020, 2010	9	Marketing 2200; Merchandising 2210 or 2220	3
Orientation 1010	1	Office Administration 2140, 2180, 2190, 2200	12
Speech 1010	3		30
	31		

Total Semester Hours for Degree: 61

Footnotes:

¹ Excludes all courses offered in the College of Business.

COLLEGE OF EDUCATION

Room 103A, Teacher Education Center
318-357-5195

Acting Dean: John Tollett, *Assistant Professor*

Professors: Barron, Carr, Hall, S. Hunt, Morris, Ragsdale

Associate Professors: R. Bowman, V. Bowman, Duchardt, Gifford, Gillan, Inman, Kher, Marlow, Scheffler

Assistant Professors: Christensen, Fuller, Gullatt, Hays, Heckaman, McGehee, Pearson, Reeves, Sclafani

Instructor: Chance

Mission of the College of Education

The College of Education continues to adhere to the teacher education concept upon which the institution was founded in 1884 and combines the functions of teacher education and services to educational agencies with continuing leadership in the development and implementation of sound educational practices and innovations. The College strives to meet the needs and interests of schools, educational agencies, and communities by developing well-trained teachers, providing leadership services, demonstrating good models of teaching, and by developing ancillary schools and university personnel. A major goal is to prepare beginning teachers who are models for learning and who demonstrate outcomes that are reflective of essential knowledge-pedagogical knowledge, general knowledge, and specialized knowledge. These outcomes are developed through the processes of problem solving, creative/critical thinking, responsibility taking, and decision making. Advancement of the field of education, through research and development, is a major product of faculty and graduate student scholarship.

Degrees Offered Through the College of Education

Bachelor of Arts in Elementary Education

Bachelor of Arts in Special Education

Bachelor of Science in Secondary Education (see associated concentrations)

(Bachelor of Arts in Early Childhood Education see the College of Science and Technology)

(Bachelor of Music Education in Music Education see College of Liberal Arts)

(Bachelor of Science in Physical Education see College of Science and Technology)

Master of Education (see associated concentrations)

Master of Arts in Student Personnel Services

Educational Specialist in Educational Leadership and Instruction (see associated concentrations)

Bachelor of Arts in Elementary Education

Elementary Education Major Requirements: (49 semester hours) Students seeking a major in Elementary Education must complete 49 semester hours, within the 129 semester hour Elementary Education curriculum, which include Education 2020, 3020, 3140, 4230, 4330, 4430, 4080, 4040, 4210, Educational Psychology 3000, 3010, Reading 3030, 3060, 4070, and Special Education 3460.

Curriculum for Bachelor of Arts in Elementary Education (331)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Education 2020	3	Educational Psychology 3000.....	3
English 1010,1020	6	English literature ²	3
Fine Arts 1040.....	3	Geography 1010 or 1020 or 2010.....	3
Health Education 1010.....	2	Mathematics 2030, 2040.....	6
Health and personal fitness ¹	2	Nutrition 1050.....	2
History 2010 or 2020.....	3	Science 2010, 2020, 3011, 3021.....	8
Mathematics 1020, 1060.....	6	Social science electives ³	6
Orientation 1010.....	1	Special Education 3460.....	3
Science 1010, 1020.....	6		34
Speech 1010.....	3		
	<u>35</u>		

THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Art 2040	3	Education 4230, 4330, 4080, 4430 and ⁶	12
Education 3020, 3140 ⁶	4	Reading 4070 ⁴ and ⁶	3
Educational Psychology 3010 ⁶	3	Education 4040 ⁵ and ⁶	9
Electives	3	Education 4210 ⁵ and ⁶	3
English 3200 or 3210	2		27
Health Education 3160 ⁶	2		
Music 2100	3		
Physical Education 3170 ⁶	2		
Reading 3030, 3060	6		
Science 3031	1		
Social Studies 3030 or History 3040	3		
	33		

Total Semester Hours for Degree: 129

Footnotes:

¹ Selected from Health Education 1090, Nutrition 1020,1030, Physical Education 1110.

² Selected from English 2050, 2060, 2070, 2080.

³ Selected to meet University core requirements.

⁴ Must be taken as a block.

⁵ Student teaching and EDUC 4210 constitutes a full academic load for one semester.

⁶ Admission to teacher candidacy is a prerequisite for enrollment in this/these course(s).

Bachelor of Science in Secondary Education

Secondary Education majors complete General Education/University core courses and Professional Education courses and may select one Concentration—Art Education, Business and Office Education, Distributive and Business Education, English Education, Industrial Arts Education, Mathematics Education, Science Education (General Science, Biology, Chemistry or Physics), Social Sciences Education, Speech Education, or Vocational Home Economics Education. Concentrations are certifiable teaching subject areas in the State of Louisiana. Upon completion of required courses and state certification requirements, including state minimum scores on the National Teacher Examinations, graduates will be certified to teach secondary level (grades 7-12). Total hours in the Secondary Education Curriculum vary from 126-140 and include General Education/University Core courses as required by certification area (50-52 semester hours), Professional Education courses (34 semester hours), and courses as required by Concentration (42-54 semester hours).

Students majoring in Secondary Education are advised by faculty in both the College of Education and faculty in the College/Department of the selected Concentration area.

Secondary Education Major Requirements: (76-88 semester hours) Students seeking a major in Secondary Education must complete 76-88 semester hours, within the 126-140 semester hour Secondary Education curriculum, which include a 34 semester hour Secondary Education core and a 42-54 semester hour concentration.

Requirements for Bachelor of Science Degree in Secondary Education

- A. General Education/University Core^{1,2}** (50-52 semester hours)
English (12 hours); Mathematics (6 hours); Science (12-14 hours); Fine Arts and Humanities (3 hours); Social Science (12 hours); Health and Personal Fitness (4-5 hours); and Orientation (1 hour).
- B. Professional Education²** (34 semester hours)
Education 2020 (3 hours), 3020 (1 hour), 3140³ (3 hours), 4010³ (3 hours), 4020^{3,4} (12 hours); Educational Psychology 3000 (3 hours), 3010³ (3 hours); Reading 4080 (3 hours); Special Education 3460 (3 hours).
- C. Concentration^{1,5}** (42-54 semester hours)
Courses required in Concentration vary to meet state certification and accreditation requirements in each certifying area.

Total hours required: 126-140¹

¹ Hours vary according to selected certification area.

² Four-year plan outlining which year to enroll in these courses is shown in each listed Concentration.

³ Requires Admission to Teacher Candidacy for a Degree in Teacher Education.

⁴ Student teaching constitutes a full semester load for one semester.

⁵ Select one Concentration and enroll in required courses by year as shown in each listed Concentration.

Available Concentrations:**Concentration in Art Education (310A) (49 semester hours)**

- First year: Art 1010 (3 hours), 1020 (3 hours), 1060 (3 hours), 1070 (3 hours)
 Second year: Art 1220 (3 hours), 1230 (3 hours), 2000 (3 hours), 2010 (3 hours), 2050 (3 hours), 2070 or 2020 or 3110 (3 hours)
 Third year: Art 2090 (3 hours), 3040 (3 hours), 4240 (3 hours)
 Fourth year: Art 4100 (3 hours), 4030^a (3 hours); Photography 1050 (4 hours).

^a Graduating seniors will be required to demonstrate studio competence by presenting an exhibition for faculty committee evaluation. Art education students must take Art 4030 the last semester of the senior year to satisfy senior exhibition requirements.

Concentration in Business and Office Education (310B) (54 semester hours)

- First year: Computer 1020 (3 hours); Office Administration 1010^a (3 hours), 1020^a (3 hours)
 Second year: Accounting 2000 (3 hours), 2010 (3 hours); Computer Information Systems 1800 (3 hours); Office Administration 2190 (3 hours); [Economics 2000 (3), 2010 (3) required University core courses]
 Third year: Accounting elective (3 hours); Business Education 4200 (3 hours), 4220 (3 hours); Educational Technology 4820 (3 hours), 4830 (3 hours); Marketing 3230 (3 hours); Office Administration 2180 (3 hours), 2200 (3 hours)
 Fourth year: Business Administration 3250 (3 hours); Computer Information Systems 4800 (3 hours); Management 2500 (3 hours).

^a Students should refer to Credit by Examination—subject area.

Concentration in Distributive and Business Education^a (310C) (53 semester hours)

- First year: Computer 1020 (3 hours); Office Administration 1010^b (3 hours), 1020^b (3 hours)
 Second year^c: Accounting 2000 (3 hours), 2010 (3 hours); Marketing 2200 (3 hours), 2210 (3 hours); Office Administration 2180 (3 hours); [Economics 2000 (3), 2010 (3) required University core courses]
 Third year: Accounting elective (3 hours); Business Administration 3250 (3 hours); Business Education 4200 (3 hours); Distributive Education 3810^c (1 hour), 3820^c (1 hour), 4210 (3 hours); Management 3220 (3 hours); Marketing 3230 (3 hours), 3820 (3 hours)
 Fourth year: Management 4270 (3 hours); Office Administration 2200 (3 hours).

^a Two years of work experience required as defined by head of department.

^b Students should refer to Credit by Examination—subject area.

^c Juniors and seniors majoring in distributive education may receive credit for distributive practical experience after the experience has been verified by the College of Business.

Concentration in English Education (310D) (48 semester hours)

- First year: Foreign Language^a (6 hours); [English 1010 (3 hours), 1020 (3 hours) required University core courses]
 Second year^b: English 2080 (3 hours); Foreign Language^a (3 hours); Speech 1010 (3 hours); [English 2070 (3 hours) required University core course]
 Third year^c: English 3160 (3 hours), 3170 (3 hours), 4000 (3 hours), 4190 (3 hours), 4350 or 4360 or 4570 or 4590 (3 hours), 4640 (3 hours); Foreign Language^a (3 hours); [English 3200 (3 hours) required University core course]
 Fourth year: English advanced elective (3 hours), 3100 (3 hours), 3150 (3 hours); Library 4170 (3 hours).

^a All 12 semester hours must be in the same foreign language(1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).

^b History 1020 required University core course.

^c Philosophy 1010 required University core course.

Concentration in Industrial Arts Education (310E) (50 semester hours)

- First year^a: Industrial Technology 1020 (3 hours), 1400^b (3 hours), 1600 (3 hours), 1700 (1 hour), 2400 (3 hours)
- Second year: Engineering Technology 1300-1301 (5 hours), Industrial Technology 1800 (3 hours), 1320-1321 (5 hours), 2600 (3 hours), 2740 (3 hours)
- Third year: Industrial Technology 2450 (3 hours), 4700 (3 hours), Industrial Technology electives^c (6 hours)
- Fourth year: Industrial Technology electives^c (6 hours).

^a Mathematics 1020 and 1090 are recommended University core courses in this curriculum.

^b Students may take a proficiency test if two units of mechanical drawing were completed in high school.

^c All majors are required to have four areas of specialization with a minimum of nine semester hours in each area. Areas of specialization may be selected from electronics, drafting, metals, power mechanics, or woods.

Concentration in Mathematics Education (310F) (42 semester hours)

- First year^a: Mathematics 1010 (1 hour), 2100 (5 hours); [Mathematics 1100 (6 hours) required University core course]
- Second year^b: Mathematics 2110 (5 hours), 3130 (3 hours)
- Third year: Computer Science 2010 or 1060 (3 hours); Mathematics 2050 (3 hours), 2080 (3 hours), 3020 (3 hours), 3090 (4 hours), 3100 (3 hours)
- Fourth year: Mathematics 3150 (3 hours), 4070 (3 hours), 4950 or applied^c (3 hours).

^a Biology 1010-1011 required University core courses.

^b Chemistry 1030 or Physics 2520-2521 and Physics 2510-2511 required University core courses.

^c Selected from Mathematics 4170, 3450, 3160, 4100.

Concentration in Science Education (General Science) (310G) (47 semester hours)

- First year^a: Chemistry 1051 (2 hours); [Biology 1010-1011 (4 hours) and 1020-1021 (4 hours), Chemistry 1030 (3 hours) and 1040 (3 hours) required University core courses]
- Second year: Geology 1030-1031 (4 hours), 1040-1041 (4 hours); Physics 2030-2031 (4 hours), 2040-2041 (4 hours); Mathematics 2010 (3 hours)
- Third year: Computer science elective^b (3 hours); Physics 1120 (3 hours); Science electives^c (16 hours)
- Fourth year: Computer science elective^b (3 hours); Teaching laboratory practicum (1 hour).

^a Mathematics 1100 required University core course.

^b Selected from Computer 1020, Computer Information Systems 1800, Computer Science 1060, Educational Technology 4820 or higher level course.

^c Completion of this degree earns certification in general science. The science electives are to be chosen to earn certification in one or more other science areas. Courses must be chosen from one of the following areas (thereby earning certification in that area):

- Biology: Microbiology 2060-2061, Zoology 2050-2051
- Chemistry: Chemistry 3010-3011, 2110-2111
- Physics: Physics 4100, 3291
- Earth Sciences: Geology 3010-3011, 3070-3071

Concentration in Science Education (Biology) (310H) (47 semester hours)

- First year^a: Chemistry 1051 (2 hours); Mathematics 2010 (3 hours); [Biology 1010-1011 (4 hours) and 1020-1021 (4 hours), Chemistry 1030 (3 hours) and 1040 (3 hours) required University core courses]
- Second year: Geology 1030-1031 (4 hours), 1040-1041 (4 hours); Microbiology 2060-2061 (4 hours); Physics 2030-2031 (4 hours), 2040-2041 (4 hours); Zoology 2050-2051 (4 hours)
- Third year: Biology 2950 (1 hour), 3270 (3 hours), 4400-4001 (4 hours); Botany 2100-2001 (3 hours); Zoology 4210-4211 (4 hours)
- Fourth year: Biology 4000 (3 hours).

^a Mathematics 1100 required University core course.

Concentration in Science Education (Chemistry) (310I) (55 semester hours)

- First year^a: Chemistry 1010 (1 hour), 1051 (2 hours); Mathematics 2100 (5 hours); [Biology 1010-1011 (4 hours) and 1020-1021 (4 hours), Chemistry 1030 (3 hours) and 1040 (3 hours) required University core courses]
- Second year: Chemistry 2110-2111 (4 hours), 2140-2141 (3 hours); Mathematics 2110 (5 hours); Physics 2030-2031 (4 hours), 2040-2041 (4 hours)
- Third year: Chemistry 2200 (1 hour), 3010-3011 (5 hours), 3020-3021 (5 hours); Geology 1030-3031 (4 hours), 1040-1041 (4 hours)
- Fourth year: Chemistry 3210-3211 (4 hours), 4040-4041 (4 hours).

^a Mathematics 1100 required University core course.

Concentration in Science Education (Physics) (310K) (54 semester hours)

- First year^a: Chemistry 1051 (2 hours); Mathematics 2100 (5 hours); [Biology 1010-1011 (4 hours) and 1020-1021 (4 hours), Chemistry 1030 (3 hours) and 1040 (3 hours) required University core courses]
- Second year: Geology 1030-1031 (4 hours), 1040-1041 (4 hours); Physics 1010 (1 hour), 2510-2511 (5 hours), 2520-2521 (5 hours); Mathematics 2110 (5 hours)
- Third year: Mathematics 3160 (3 hours); Physics 2200 (1 hour), 3291 (3 hours), 3710 (3 hours), 3820 (3 hours), 4100 (3 hours)
- Fourth year: Physics 1120 (3 hours), 3010-3011 (4 hours).

^a Mathematics 1100 required University core course.

Concentration in Social Science Education (310L) (54 semester hours)

- First year: Geography 1020 (3 hours); History 1020 (3 hours); [Geography 1010 (3 hours), History 1010 (3 hours), and Sociology 1010 (3 hours) required University core courses]
- Second year: Economics 2000 (3 hours), 2010 (3 hours); Geography 2010 (3 hours); History 2020 (3 hours); Political Science 2010 (3 hours), 2020 (3 hours)
- Third year: Anthropology 2020 (3 hours); History advanced electives^a (6 hours); Political Science advanced electives^b (6 hours); Sociology 3060 or 4400 (3 hours); Social Studies 3030 (3 hours)
- Fourth year: History advanced electives^a (6 hours), Sociology 4080 (3 hours).

^a Any History 3000-4000 level course designated for undergraduate/graduate except 3170, 4040, 4080, 4090.

^b To be selected from Political Science 2910, 3090, 4010, 4090.

Concentration in Speech Education (310M) (46 semester hours)

- First year: Speech 1010 (3 hours), 1210 (3 hours)
- Second year: Elective^a (3 hours); Journalism 1980 (1 hour), 2410 (3 hours); Speech 2010 (3 hours), 2050 (3 hours), 2500 (3 hours); Theatre 2310 (3 hours), 2320 (3 hours)
- Third year: Electives^a (6 hours); Speech 3120 or 4020 (3 hours), 4030 (3 hours)
- Fourth Year: Speech 4010 (3 hours); Theatre 3120 (3 hours).

^a Electives may be selected to apply to a second certifiable teaching area.

Concentration in Vocational Home Economics Education (310N) (44 semester hours)

- First year^a: Art 1010 (3 hours); Early Childhood Education 2000-2001 (4 hours); Family and Consumer Sciences 1010 (3 hours), 1070 (1 hour), 2010 (3 hours); [Nutrition 1030 (3 hours) required University core course]
- Second year: Computer 1020 (3 hours); Family and Consumer Sciences 2030 (3 hours), 3020 (2 hours) 3100 (3 hours)
- Third year: Family and Consumer Sciences 3030 (3 hours), 3050 (3 hours), 3090 (3 hours), 4080 (3 hours), 4160 (3 hours), 3000-4000 level elective^b (3 hours)
- Fourth year: Family and Consumer Sciences 4010 (1 hour).

^a Physical Education 1110 or Health Education 1010 or 1090 required University core courses.

^b Selected with advisor approval.

Curriculum for Bachelor of Science in Secondary Education (310)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Education 2020	3	American History	3
English 1010, 1020	6	Educational Psychology 3000	3
Health and personal fitness ^{1,2}	4-5	English 3210 ⁷ , Literature ⁸	6
Mathematics ^{1,3}	6	Fine Arts 1040	3
Orientation 1010	1	Social Science ^{1,6a}	3
Science ^{1,4,5}	6-8	Science ^{1,9,10}	6-8
Concentration ^{6,6a}		Concentration ⁶	
26-29 + Concentration ^{6,6a}		24-26 + Concentration ⁶	
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM.HRS..
Education 3020, 3140 ¹¹	4	Education 4010 ¹¹ , 4020 ^{11,14}	15
Educational Psychology 3010 ¹¹	3	Reading 4080	3
Social Science ^{1,6a,12,13}	6	Concentration ⁶	
Special Education 3460	3	18 + Concentration ⁶	
Concentration ⁶			
16 + Concentration ⁶			

Total Semester Hours for Degree: 126-140¹⁵

Footnotes:

- ¹ Selected to meet University Core requirements.
- ² Vocational Home Economics Education Concentration requires Nutrition 1030 and Physical Education 1110 or Health Education 1010 or 1090.
- ³ Mathematics Education and Science Education (General Science, Biology, Chemistry, or Physics) Concentrations require Mathematics 1100.
- ⁴ Mathematics Education Concentration requires Biology 1010/1011.
- ⁵ Science Education (General Science, Biology, Chemistry, Physics) requires Biology 1010/1011, 1020/1021.
- ⁶ Select one Concentration; see required courses listed in Concentration.
- ^{6a} Social Science Education Concentration requires Geography 1010, History 1010, Sociology 1010 as required University core course in first year.
- ⁷ English Education Concentration requires English 3200.
- ⁸ English Education Concentration required English 2070.
- ⁹ Mathematics Education Concentration requires Physics 2510/2511; and Chemistry 1030 or Physics 2520/2521.
- ¹⁰ Science Education (General Science, Biology, Chemistry, Physics) requires Chemistry 1030, 1040.
- ¹¹ Requires Admission to Teacher Candidacy for a Degree in Teacher Education.
- ¹² Business/Office Education and Distributive/Business Education Concentrations require Economics 2000, 2010.
- ¹³ English Education Concentration requires History 1020, Philosophy 1010.
- ¹⁴ Student teaching constitutes a full semester load for one semester.
- ¹⁵ Hours vary according to selected certification area.

Bachelor of Arts in Special Education

Special Education majors completing this program will be certified in Mild/Moderate Impairments Grades 1-12 and Elementary Grades 1-8.

Special Education Major Requirements: (70 semester hours) Students seeking a major in Special Education must complete 70 semester hours, within the 150 semester hour Special Education curriculum, which include Education 2020, 3020, 3140, 4230/4030-02, 4330/4030-03, 4430/4030-04, 4080, 4040, Educational Psychology 3000, 3010, Reading 3030, 3060, 4070, Special Education 3460, 4050, 4360, 4380, 4390, 4520, 4800

Curriculum for Bachelor of Arts in Special Education (380)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Education 2020	3	Educational Psychology 3000.....	3
English 1010, 1020	6	English literature ²	3
Fine Arts 1040.....	3	Geography 1010 or 1020 or 2010.....	3
Health Education 1010.....	2	Mathematics 2030, 2040	6
Health and personal fitness ¹	2	Nutrition 1050	2
History 2010 or 2020	3	Science 2010, 2020, 3011, 3021	8
Mathematics 1020, 1060.....	6	Social science elective ³	6
Orientation 1010	1	Special Education 3460.....	3
Science 1010, 1020	6	Special Education 4360.....	3
Speech 1010	3		37
	35		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Art 2040	3	Education 4080, 4230, 4330, 4430 ⁴ and ⁶	12
Education 3020, 3140 ⁶	4	Reading 4070 ⁴ and ⁶	3
Educational Psychology 3010, 4420.....	6	Education 4040 ⁴ and ⁵	12
English 3210 or 3200.....	3	Special Education 4050, 4800	6
Health Education 3160 ⁶	2		33
Music 2100.....	3		
Physical Education 3170 ⁶	2		
Reading 3030, 3060	6		
Library Education 4160	3		
Science 3031	1		
Social Studies 3030 or History 3040	3		
Special Education 4390, 4380, 4520	9		
	45		

Total Semester Hours for Degree: 150

Footnotes:
¹ Selected from Health Education 1090, Nutrition 1020, 1030, Physical Education 1110.
² Selected from English 2050, 2060, 2070, 2080.
³ Selected to meet University core requirements.
⁴ Must be taken as a block.
⁵ Student teaching constitutes a full academic load for one semester.
⁶ Admission to teacher candidacy is a prerequisite for enrollment in these courses.

TEACHER CERTIFICATION PROGRAMS

Programs Leading to Teacher Certification

The University offers undergraduate teacher certification. All bachelor's degree programs are accredited by the National Council for Accreditation of Teacher Education. Electives included in the teacher education program may be selected to complete a second area of certification to teach. See the Dean of the College of Education.

Programs leading to certification include:

- Art Education (K-12)
- Business and Office Education (7-12)
- Distributive and Business Education (7-12)
- Early Childhood Education (Nursery School-K)
- Elementary Education (1-8)
- English Education (7-12)
- Health and Physical Education (K-12)
- Home Economics Education (7-12)
- Industrial Arts Education (7-12)
- Mathematics Education (7-12)
- Music Education (K-12)
- Science Education (Biology, Chemistry, General Science, Physics) (7-12)
- Social Science Education (7-12)
- Special Education—Mild/Moderate Impairments and Elementary Education (1-12)
- Speech Education (7-12)

Certification Areas

The University offers a broad array of programs and courses leading to state certification. The following list is complete at the time of this printing. The College of Education or appropriate department should be contacted for information.

Nursery School and/or Kindergarten

Elementary (Grades 1-8)

Add-Ons

- Computer Literacy
- Computer Science
- Foreign Language
- Industrial Arts
- Nursery School and/or Kindergarten

Secondary Teachers (Grades 7-12)

Add-Ons

- Business and Office Education
 - Business Education
 - Cooperative Education
- Computer Literacy
- Computer Science
- Distributive Education
- Driver and Traffic Safety Education
- English
- Home Economics—Vocational
 - Nursery School
- Home Economics—Occupational
- Home Economics—Food Service
- Ancillary Home Economics—Occupational
- Industrial Arts Education
- Journalism
- Mathematics

Science Areas:

- General Science
- Biology
- Chemistry
- Physics

- Social Studies

- Speech

All Level Teachers (Grades K-12)

- Art Education

- Health and Physical Education

- Adaptive Physical Education

- Music Education

Teachers of Exceptional Children

- Mild/Moderate Impairments (1-12)

- Academically Gifted

- Adaptive Physical Education

Administrators, Supervisors, and Special Service Personnel

- Elementary School Principal

- Secondary School Principal

- Parish or City School Supervisor of Instruction

- Parish or City School Superintendent

- Supervisor of Student Teaching

- Supervisor of School Libraries

- Supervisor of Parish or City Materials and/or Media Centers

- Guidance Counselors

- Counselor, K-12

- Ancillary Counselor, K-12

- Reading Specialist

- Parish or City School Supervisor/Director of Special Education

- Special School Principal

- Child Search Coordinator

Ancillary Personnel

- Child Nutrition Program Supervisor

- Provisional Child Nutrition Program Supervisor

- Qualified Examiners for Special Education

- Assessment Teacher

- Educational Consultant

- Program Evaluator

- Assistant Superintendent for Non-instructional Areas

Alternate Post-baccalaureate Certification Program

The State Alternate Post-Baccalaureate Certification Program at Northwestern State University provides opportunities for individuals with non-education degrees to become certified public school teachers. Alternate Post-Baccalaureate Certification Programs are offered in Elementary (1-8), Secondary (7-12) and Mild/Moderate Special Education (1-12).

Candidates for admission must have an earned baccalaureate degree from a regionally accredited institution with an overall grade point average of 2.5 (4.0 scale). Provisional admission requires a grade point average of 2.20 to 2.49 (4.0 scale).

Individuals seeking certification under this program must submit official transcript(s) for evaluation to the College of Education. Alternate certification programs are offered by Northwestern only in those certification areas in which teacher education programs are approved.

Certification requirements include coursework in the following areas:

General Education**Specialized Academic Education****Professional Education**

Student Teaching or Internship

Candidates for certification must complete twelve hours of student teaching (EDUC 4020 or 4040) or a one-year internship (EDUC 4620) in the area(s) of certification with supervision provided by faculty in the College of Education.

National Teacher Examinations (NTE)

The applicant must attain state minimum scores on the Communications Skills, General Knowledge, Professional Knowledge, and Specialty Area portions of the NTE.

NOTE: No final grade below a C will be accepted for student teaching or any professional education or specialized academic education course which is required for certification. In addition, no final grade below a C will be accepted for any other course specified as a deficiency under this plan.

Alternate Post-baccalaureate Teacher Certification for Students in the Louisiana Scholars' College

Students pursuing degrees in the Louisiana Scholars' College may satisfy requirements for teaching certification in English in the State of Louisiana. This alternate certification program requires that some portion of the professional course of study be completed after the baccalaureate degree has been awarded. Contact the Coordinator of Teacher Certification in the College of Education for specific criteria.

General Program Objectives

NOTE: These objectives apply to certification in all-levels (grades K-12), early childhood education (nursery-kindergarten), elementary (grades 1-8), and secondary (grades 7-12).

All undergraduate teacher education (certification) programs are designed to accomplish the following objectives within three basic areas: general education, specialized academic education, and professional education.

A. General Education. Students in teacher education programs will:

1. Demonstrate attainment of a basic and broad liberal education by completing the University core courses with a grade of C or better.
2. Show proficiency in the basic communication skills of listening and writing by achieving the required score on the Communication Skills test of the NTE.
3. Illustrate the correct use of standard English in verbal and written communications by completing English 1010 and English 1020 with grades of C or better.

B. Specialized Academic Education. Students in teacher education programs will:

1. Demonstrate proficiency in areas of certification by earning grades of C or better in each specialized academic course.
2. Show competency in the teacher education curriculum pursued by attaining at least the minimum required score established by the State of Louisiana on the Specialty Area test of the NTE.

C. Professional Education. Students in teacher education programs will:

1. Demonstrate knowledge in the areas of educational foundations, learning theories, child and adolescent development, and methods and techniques of organizing and implementing instruction by earning in each professional education course a grade of C or better.
2. Demonstrate competence in the knowledge base undergirding teaching by attaining at least the minimum required score on the Professional Knowledge test of the NTE.
3. Demonstrate competency in instructional strategies and techniques through successful completion of simulation activities, microteaching, supervised teaching, and other field-based experiences.
4. Show proficiency in the development, selection, and use of instructional aids and materials through the successful completion of activities in methods courses, field experiences, and student teaching.
5. Demonstrate competency in the organization and implementation of instructional programs by successfully completing student teaching with a grade of "C" or better.

Admission to Candidacy for a Degree in Teacher Education

Prior to enrolling in Educational Psychology 3010, teacher education majors must be admitted to candidacy for a degree in teacher education.

Requirements for admission to candidacy for a degree in teacher education are:

1. Complete Education 2020 and all first year courses as defined by the catalog in effect the semester the student enrolls as an education major.*
2. Have a 2.5 overall grade point average (excluding activity courses and remedial courses).
3. Complete each of the following with a grade of C or better:**
 - a. Courses used to satisfy University core requirements.
 - b. Degree-applicable professional education courses.
 - c. Degree-applicable specialized academic courses.
4. Achieve at least the minimum required scores on the following NTE Core Battery tests:
 - General Knowledge 644
 - Communication Skills...645
5. Initiate and complete an application form for admission to candidacy.
6. Secure two favorable recommendations for admission to candidacy.

* Transfer students meeting requirement number one (1) may be conditionally admitted to candidacy for a degree in teacher education during their first semester at Northwestern.

** This rule applies to core courses taken after Summer 1993. Students who have courses exempted from this rule must have a grade of C or better in courses defined by the catalog as first year courses for the students' major.

Retention as a Candidate for a Degree in Teacher Education

Retention as a candidate for a degree in teacher education requires that a student continue to earn grades of a C or better in all degree applicable coursework and maintain an overall GPA of 2.5 or better.

Appeal for Candidacy for a Degree in Teacher Education

A student who does not meet requirements for admission and/or retention to candidacy may file a written appeal with the Admissions and Retention Committee of the College of Education if he/she believes that substantive mitigating circumstances exist. The Admissions and Retention Committee will recommend approval or disapproval of the appeal to the Dean of the College of Education.

Admission to Student Teaching

In order to be admitted to student teaching, a student must:

1. Continue to meet requirements for candidacy for a degree in teacher education.
2. File an application for student teaching with the Coordinator of Field Experiences at the beginning of the semester preceding the one in which an assignment is desired.
3. Complete professional methods course(s) at Northwestern prior to student teaching.

NOTE: All student teachers are required to student teach in all teaching fields for which certification is initially sought.

Program Exit

Students graduating from a teacher education program must meet all criteria established by the University and those of the teacher education program in which they enrolled.

Specific teacher education criteria include:

1. An overall grade point average of at least 2.5.
2. Grade of C or better in each professional education course, specialized academic course, and university core course.

Graduate Programs

Master of Education Degree (505)

Concentration Areas:

Business and Distributive Education (505A)
 Counseling (505B)
 Early Childhood Education (505C)
 Elementary Teaching (505E)
 English Education (505F)
 Home Economics Education (505G)
 Mathematics Education (505H)
 Reading (505I)
 Science Education (505J)
 Secondary Teaching (505K)
 Social Sciences Education (505L)
 Special Education, Gifted and Talented (505N)
 Special Education, General (505O)
 Special Education, Mild/Moderate Certification (505P)
 Special Education, Assessment Certification (505Q)
 Educational Technology (505R)
 Health and Physical Education (505S)
 Professional Secondary Studies: Alternate Certification 5th-Year Program (505T)
 Adult and Continuing Education (505V)
 Educational Leadership (505W)

Requirements for the Master of Education Degree in all Concentration Areas listed above include 33 semester hours as follows:

- A. FOUNDATIONS (nine hours): Education 5010, 5020, or Counseling 5540 (Counseling) or Special Education 5920 (Special Education) or Education 5160 (Secondary Teaching Option) and Education 5030.
- B. CONCENTRATION AREA (12-24 hours): To be selected from courses in the student's Concentration Area.
- C. SUPPORT AREA (0-nine hours): To be selected from courses that support the student's Concentration Area.
- D. APPLICATION AREA (0-six hours): Thesis or Directed Project. Designed to combine foundations, concentration and support areas into an organized and supervised application of knowledge and competencies.

Business and Distributive Education Concentration (505A)

Undergraduate preparation: valid teaching certificate in business education or a valid vocational-technical certificate in business or distributive education.

Special requirements: minimum of 33 semester hours to include:

Business Education:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: Business Education 5100, 5160, 5920, and six hours to be selected from: Business Education 4200, 4220, 5210, 5930, 6210.
- C. Support Area: Six hours to be selected from Computer Information Systems 4800, Computer 5000, 5030, Educational Technology 4820, 4830, 5730, 5770.
- D. Application Area: Education 5980 (three hours) or Education 5950 (three hours) or Education 5990 (three hours).

Distributive Education:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: Distributive Education 5110, 5920, and nine hours to be selected from: Distributive Education 4210, 6010, 6240, Business Education 4200, 4220, 4230, 5210, 5930, 6210.
- C. Support Area: Six hours to be selected from: Computer Information Systems 4800, Computer 5000, 5030, Educational Technology 4820, 4830, 5730, 5770.
- D. Application Area: Education 5950 (three hours) or Education 5980 (three hours) or Education 5990 (three hours).

Counseling Concentration (505B)

May be pursued simultaneously with the Ed.S. in Counseling.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5030 and Counseling 5540.
- B. Concentration Area: Counseling 5000, 5510, 5530, 5550, 5580, and Educational Psychology 5460.
- C. Support Area: Educational Psychology 5520.
- D. Application Area: Counseling 5590 or 6510¹.

¹ Paper in lieu of thesis required in Counseling 6510.

Early Childhood Education Concentration (505C)**Option I:**

Undergraduate preparation: valid teaching certificate in early childhood education, elementary education, or home economics.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5030, Early Childhood Education 5190.
- B. Concentration Area: Early Childhood Education 5010, 5180, 5430, 5450.
- C. Support Area: Six semester hours to be selected from: Early Childhood Education 5020, 5430, 5470.
- D. Application Area: Early Childhood Education 5460 and 5930 or 5980 (six hours).

Undergraduate deficiencies as identified by the College must be addressed before graduate level courses can be taken.

Option II:

Undergraduate preparation: Bachelor's degree without a valid teaching certificate with undergraduate preparation approved by the College of Education.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5030, Early Childhood Education 5190.
- B. Concentration Area: Early Childhood Education 5010, 5020, 5180, 5430, 5450, 5470.
- C. Support Area: No hours required.
- D. Application Area: Early Childhood Education 5460, 5930, or 5980 (six hours).

Educational Leadership Concentration (505W)

Undergraduate preparation: A valid Louisiana teaching certificate is required of persons seeking certification as a principal or supervisor in Louisiana.

Special requirements: minimum of 33 semester hours to include.

Administration

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: Educational Leadership 5100, 5110, 5140 or 5350, 6110, 6120, 6130, 6140.
- C. Support Area: No hours required.
- D. Application Area: Educational Leadership 6180 and paper in lieu of thesis in 6180.

Supervision

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: Educational Leadership 5100, 5110, 5120 or 5150, 6130 and Education 5160.
- C. Support Area: Two of the following: Educational Psychology 4400, 4420, 5410.
- D. Application Area: Educational Leadership 6180 and paper in lieu of thesis in 6180.

Elementary Teaching Concentration (505E)

Undergraduate preparation: certification to teach in the elementary school.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: Education 5090, Reading 5110, Education 6450, six semester hours selected from Education 5310, 5320, 5330, nine semester hours of subject concentration selected from either Reading (Reading 5510, 5710, 5150), or Computer Information Systems or Educational Technology, or a subject area taught in the elementary school.
- C. Support Area: No hours required.
- D. Application Area: Paper in lieu of thesis completed in Education 5030.

English Education Concentration (505F)

Undergraduate preparation: valid teaching certificate for secondary grades in English or another certification area with a minimum of 21 semester hours in English at the undergraduate level.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: 18 semester hours in English.
- C. Support Area: No hours required.
- D. Application Area: Six semester hours in English 5980 or Education 5950, 5980 or 5990.

Home Economics Education Concentration (505G)

Undergraduate preparation: valid teaching certificate in Home Economics.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: 12-18 hours to include Family and Consumer Sciences 5000, 5140.
- C. Support Area: 0-six hours to be selected from list of approved electives maintained in the College of Education.
- D. Application Area: Family and Consumer Sciences 5980 (six hours) or six hours from Family and Consumer Sciences 5030, 5040, 5120.

Mathematics Education Concentration (505H)

Undergraduate preparation: certification to teach mathematics.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: 18 semester hours in mathematics.
- C. Support Area: No hours required.
- D. Application Area: Mathematics 5950 (six hours) or Mathematics 5980 (six hours) for concentration in mathematics education.

Reading Concentration (505I)

Undergraduate preparation: certification to teach in the elementary or secondary school; at least one undergraduate course in reading methods.

Special requirements: minimum of 33 semester hours to include.

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: Reading 5110, 5130, 5150, 5510, 5710, 6510, Education 5040, 5090.
- C. Support Area: No hours required.
- D. Application Area: Paper in lieu of thesis completed in Education 5030.

Science Education Concentration (505J)

Undergraduate preparation: certification to teach science or mathematics; 18 semester hours in biological sciences including Biology 1010-1011, 1020-1021, Botany 2100-2101, Microbiology 2060-2061, Zoology 2050-2051 or equivalent for concentration in biology education; 14 semester hours from Chemistry 1030, 1040-1051, 3010-3011, 3020-3021, 2110-2111, 2120-2121 or equivalent for concentration in chemistry education; 15 semester hours in Physics, including Physics 2030-2031, 2040-2041, 2510-2511, 2520-2521, or their equivalent for primary concentration in physics education.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020 or 5160, 5030.
- B. Concentration Area: The student will choose two areas of concentration. A student will complete 12 hours of graduate credit in a primary concentration area and 6 hours of graduate credit in a secondary concentration area, selected from biology, chemistry or physics (i.e. 12 hours chemistry, six hours physics; 12 hours biology, six hours chemistry; 12 hours chemistry, six hours biology). Three-six hours in the concentration area will be internship hours. Students will teach an introductory science laboratory course (Biology 1011 or 1021, Chemistry 1051, or Physics 2031 or 2041).
- C. Application area: six hours directed project credit to be selected in the student's primary concentration area. Education 5950, Biology 5950, Chemistry 5950, or Physics 5950.

Secondary Teaching Concentration (505K)

Undergraduate preparation: certification to teach in the secondary school.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020 or 5160, 5030.
- B. Concentration Area: 12 semester hours in a content area.
- C. Support Area: Six semester hours to be selected from Educational Leadership 5150, Education 5050 or 5200 or Educational Psychology 5460 or Educational Technology 5710 or Reading 5130 or 5150.
- D. Application Area: Six semester hours in Education 5950, 5980 or Education 5990.

Social Science Education Concentration (505L)

Undergraduate preparation: valid teaching certificate and 33 semester hours of social sciences.

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: 18 semester hours in the social sciences.
- C. Support Area: No hours required.
- D. Application Area: History 5980 or paper-in-lieu of thesis in any of the courses taken in the Concentration Area above.

Special Education Areas

Undergraduate preparation: valid teaching certificate.

Special requirements: minimum of 33 semester hours to include:

Gifted and Talented Certification (505N)

- A. Foundations: Education 5010, 5030, Special Education 5920.
- B. Concentration Area: Special Education 5840, 5890, nine hours to be selected from Special Education 5830, 5860, 5870, 5900¹.
- C. Support Area: Educational Technology 4800, 4810, 4820 or nine hours selected from content area in basic certification.
- D. Application Area: Special Education 5980 or paper in lieu of thesis in Education 5030.

General Concentration (5050)

- A. Foundations: Education 5010, 5030, Special Education 5920.
- B. Concentration Area: 12-18 hours to be selected from Special Education 5340, 5350, 5910, 5960, 5970, Educational Psychology 5370.
- C. Support Area: Educational Psychology 5460.
- D. Application: Special Education 5980 or 5910.

Mild/Moderate Certification (505P)

- A. Foundations: Education 5010, 5030, Special Education 5920.
- B. Concentration Area: 15-18 hours to be selected from Special Education 5340, 5450, 5510², 5520, 5570, 5600, 5910.
- C. Support Area: Educational Psychology 5370, Special Education 5960.
- D. Application Area: Special Education 5980 or paper in lieu of thesis in Education 5030.

Assessment Certification (505Q)

- A. Foundations: Education 5010, 5030, Special Education 5920.
- B. Concentration Area: Special Education 5340, 5960, 5970, Educational Psychology 5370, 5410.
- C. Support Area: Reading 5110, 5510, 5710.
- D. Application Area: Special Education 5980 or paper in lieu of thesis in Education 5030.

¹ May be required for certification.

² To be taken if 3460 or 4460 has not been taken previously.

Educational Technology Concentration (505R)

Special requirements: minimum of 33 semester hours to include:

- A. Foundations: Education 5010, 5020, 5030.
- B. Concentration Area: Educational Technology 5700, 5730, 5750, 5780.
- C. Support Area: Selected from Educational Technology 4820, 4830, 5710, 5760, 5770, Computer Information Systems 4800, Computer 5000, 5010, 5020, 5030.
- D. Application Area: Education 5950 or 5980 or 5990.

Health and Physical Education Concentration (505S)

Undergraduate preparation: undergraduate preparation for a major or minor in Health and Physical Education as defined at Northwestern State University.

Special requirements: minimum of 33-36 semester hours to include:

- A. Foundations: Education 5010, 5030, Educational Psychology 4400¹.
- B. Concentration Area: Physical Education 4360, 5250, 5430, 5470 or 5660.
- C. Support Area: Health Education 4880, 5100, 5200.
- D. Application Area: Physical Education 5690 or thesis.

¹ Educational Psychology 4400 is a prerequisite for Education 5010 and both of these courses must be completed or taken simultaneously with Physical Education or Health Education graduate courses.

Professional Secondary Studies: Alternate Certification 5th-year Program (505T)

Special requirements: minimum of 33 semester hours.

Specialized Academic Education: Must have a degree (major) in the area of certification or meet the state minimum requirements as specified in Bulletin 746, LOUISIANA STANDARDS FOR STATE CERTIFICATION OF SCHOOL PERSONNEL. Must have at least twelve (12) semester hours of upper-level courses in the major or certification area.

- A. Foundations: Education 5010, 5030, 5020 or 5160.
- B. Concentration Area: Education 4620 (nine hours), 5600, 5610.
- C. Support Area: Educational Psychology 4400, 5460.
- D. Application Area: Education 5980 or a three semester hour graduate elective approved by the major professor and selected to support the student's teaching area. Students not writing a thesis must complete a paper in lieu of thesis.

Adult and Continuing Education Concentration (505V)

Special requirements: minimum of 33 semester hours.

Course content and activities focus on defining and including many cultures and communities of interest. A major concentration of adult education, the undereducated adult, contributes to coursework design at every level.

- A. Foundations: (nine hours) Education 5010, 5020 or 5160, 5030.
- B. Concentration area: (12 hours) Adult and Continuing Education 4700, 4720, 5710, 5750.
- C. Support: six hours to be chosen from Reading 4090, Educational Psychology 4400, Business Education 5180, Home Economics 5130, Physical Education 5190 or Educational Technology 5700.
- D. Application: six hours to be chosen from Education 5950, 5980 or 5990.

Educational Specialist Degree in Educational Leadership and Instruction (582)

The Educational Specialist degree is offered in Educational Leadership and Instruction with the following concentration areas:

- Counseling (582A)
- Elementary Teaching (582C)
- Reading (582D)
- Secondary Teaching (582F)
- Special Education (582G)
- Educational Technology (582H)
- Educational Leadership (582I)

Counseling Concentration (582A)

May be pursued simultaneously with the M.Ed. degree in Counseling.

Degree Requirements: Courses required for the Master's degree (Counseling) must have been completed as a prerequisite for entry and form the first 30 credits for the Education Specialist. Education 6700, Educational Psychology 6420, Counseling 5560, 5550, 6530 (subtitle), 5650, 6530 (subtitle), 5610, 5980.

Educational Leadership Concentration (582I)

Special Requirements: Valid certification to teach in either elementary or secondary school and three years successful full-time teaching experience.

Degree requirements: A minimum of 63 semester hours of graduate credit including Master's degree credit as follows:

Elementary Principalship: Education 5010, 5020, 5030, 6040 and Educational Psychology 4400 (15 semester hours); Educational Leadership 5100, 5110, 5350, 6110, 6120, 6130, 6140, 6180, 6090 or 6150 (27 semester hours); Reading 5110; three semester hours from Educational Psychology 5360, 5410, or 5460; nine semester hours from a related certifiable field; and six semester hours of thesis or field study credit.

Secondary Principalship: Education 5010, 5020, 5030, 6040 and Educational Psychology 4400 (15 semester hours); Educational Leadership 5100, 5110, 5140, 6110, 6120, 6130, 6140, 6090 or 6150 (27 semester hours); Reading 5120 or 5150; three semester hours from Educational Psychology 5360, 5410, or 5460; nine semester hours from a related certifiable field; and six semester hours of thesis or field study credit.

Supervisor: Education 5010, 5020, 5030, 5160, 6040, and Educational Psychology 4400 (18 semester hours); Educational Leadership 5100, 5110, 5120 or 6060, 6130, 6140, 6090 or 6150, 6180 (21 semester hours); Reading 5110 or 5120 or 5150 (three semester hours); three semester hours from Educational Psychology 5360, 5410, or 5460; nine semester hours from a related certifiable field; and six semester hours of thesis or field study credit.

Elementary Teaching Concentration (582C)

Degree requirements: A minimum of 63 semester hours of graduate credit above the bachelor's degree including: Education 5010, 5020, 5030, 5300, 5310, 5320, 5330, 5090, 5800, Educational Leadership 5110; three semester hours from: Educational Psychology 5360 or 5410 or 5460; three semester hours electives from professional education or educational psychology courses; 18 semester hours of graduate credit from supporting academic areas as approved by the department; six semester hours of Education 5980 or 5990.

Reading Concentration (582D)

Special Requirements: possession of full certification for teaching in either elementary or secondary schools and three years of successful full-time teaching experience.

Degree requirements: A minimum of 63 semester hours of graduate credit (including Master's degree credit) of which at least 30 semester hours must be in reading and reading related courses. Twelve semester hours are required from the foundations core. Work in supporting areas and allied methods and theory must total 12 semester hours. Nine semester hours are required for research methodology and thesis credit.

Secondary Teaching Concentration (582F)

Special requirements: Valid certification to teach in the secondary school and three years of successful full-time teaching experience.

Degree requirements: Eighteen semester hours to include Education 5010, 5020, 5030, 5200, 5160, and Educational Psychology 4400; nine semester hours selected from Education 4800, 5700, Educational Leadership 5100, Educational Technology 5750, Reading 5120; six semester hours from Education 5180, 6290, Educational Psychology 4420, 5360, and Counseling 5000; three semester hours elective from education or supporting area; six semester hours of thesis or field study credit; and 21 semester hours of graduate credit from one area of certification to teach in the secondary school. A minimum of 63 semester hours of graduate credit above the bachelor's degree, including Master's degree credit.

Special Education Concentration (582G)

Degree requirements: A minimum of 63 hours. Thirty-nine semester hours must be in special education and related courses, nine hours in educational psychology, nine hours in research methods and statistics, and six hours in thesis or field study.

Educational Technology Concentration (582H)

Degree requirements: Sixty hours to include a master's degree and the following courses: Educational Technology 5700, 5730, 5750, 5760, 5780; Educational Leadership 6130, Educational Technology 4830, Education 5980, or 5990, 5000 or 6000 level elective graduate course.

Master of Arts in Student Personnel Services (575)

A Master of Arts degree in Student Personnel Services prepares students for careers in higher education in administration or counseling. The degree requires a minimum of four semesters and one summer of enrollment. No certifications are required prior to enrollment.

Required courses common to both concentration areas include: Student Personnel Services 5500, 5550, 5570 (six credits), 5920, 5930, 5960; Counseling 5000, 5510, 5530, 5580, 5610; Educational Psychology 5460, 5520, and Education 5010. Administrative concentration area students take Student Personnel Services 5910 as an elective while counseling concentration students select electives from advanced group leadership, substance abuse counseling, marriage and family counseling, and abnormal psychology. Each student completes either a thesis or paper-in-lieu of thesis and comprehensive examinations in eight content areas. Students completing the counseling concentration program with the correct elective work qualify to sit for the Louisiana Licensed Professional Counselor Examination.

Prospective students are referred to the Student Personnel Services program's Student Handbook for more specific details of the program and admission procedures. As noted, admission to the Graduate School does not guarantee admission into the Student Personnel program.

GENERAL COLLEGE

239 Kyser Hall
318-357-5000

Dean: Sue W. Weaver, *Associate Professor*

Instructors: Barker, Simmons, Welch, Pray

Mission of the College of General Studies

The mission of the General College is to provide a quality academic program in the General Studies major for students in the bachelor (four-year) degree program and the associate (two- year) degree program. This major represents a broad education with courses selected from among a wide range of disciplines. It is designed for students whose educational goals and objectives are best served by an individualized and integrated curriculum of study that crosses several disciplines.

The General College, under the Division of Academic Affairs, also provides academic services for the University's other Colleges. These include Academic Advising Services, Student Support Services, and Services for Students with Disabilities.

Degrees Offered Through the College of General Studies

Bachelor of General Studies
Associate of General Studies Degree

GENERAL STUDIES

Requirements for the Bachelor of General Studies Degree

Recognizing the value of special programs for individuals with unusual backgrounds and abilities, the University has established the General Studies Program leading to a Bachelor of General Studies degree. This program provides flexibility to allow the student's program to adapt to particular interests, background, time limitations, and ultimate career goals. It is especially appropriate for a mature person who has, as a result of various educational and work experiences, a clear focus and strong commitment to a particular course of study.

A student desiring to pursue a General Studies degree program shall submit in writing the proposed individualized program of study to the General Studies Council, a faculty council chaired by the Dean of the General College. The proposal should state the purpose and objectives of the program of study and include a detailed supporting letter from the faculty member who agrees to be the primary advisor. This proposal must be presented early enough so that the student has at least two full semesters of regularly enrolled course work remaining before graduation. The Council will decide approval of the proposed program by a review which will consider the intellectual coherence of the program, the program relevance to career objectives, and the academic qualifications of the applicant.

All proposals must satisfy the following minimum general requirements:

1. The University core requirements.
2. A minimum of 120 semester hours of academic work is required within the 124 hours required for the degree.
3. The senior year in residence, defined as the last 30 semester hours of coursework to be counted toward the degree.
4. Earn at least 25 percent of the semester hours required for the degree through instruction at NSU.
5. At least a C (2.0) average on all hours pursued and on all hours pursued at NSU.
6. At least a C (2.0) average in all hours in the "group of concentration."
7. Six semester hours in a single foreign language or in computer applications or programming languages, and Psychology 1010.
8. A minimum of 30 hours of the 124 taken in courses numbered 3000 or above, and an additional 15 hours in courses numbered 4000 or above.
9. A minimum of 12 semester hours of upper-level courses in the "group of concentration" taken in residence at NSU.

10. Eighteen hours earned in each of the following groups:
 - Group I: art, dance, English, fine arts, foreign languages, journalism, music, photography, speech
 - Group II: anthropology, economics, geography, history, philosophy, political science, psychology, sociology, social studies
 - Group III: biology, botany, chemistry, computer applications, computer science, geology, mathematics, microbiology, physics, science, zoology
11. Students may apply toward the degree a maximum of 30 semester hours in courses offered in the Division of Business, with no more than 15 hours in any one discipline.
12. In addition to the 54 required hours (18 in each of the three groups): an additional 18 hours taken in one of the three groups, making a total of 36 hours in one group for a "group of concentration." In lieu of this requirement, the student may take the course of study prescribed by Aviation Science or Criminal Justice.

The College of Science and Technology has sponsored a General Studies degree with a concentration in aviation science. Students wishing to pursue this program leading to a Bachelor of General Studies degree are not required to submit an individual proposal but must satisfy all requirements established by the sponsoring college. The special requirements for this program, with the sponsoring college indicated in parentheses, are given below. Interested students should contact the college concerned.

AVIATION SCIENCE (College of Science and Technology): Aviation Science 1010, 1050, 1060, 1101, 2050, 2101, 2121, 3000, 3040, 3101, 4100, 4110, 4201, 4221 or 4241; Aviation Science or Aviation Technology electives, 3 hours. Total: 42 hours.

Associate of General Studies Degree

A student desiring to obtain an Associate of General Studies degree shall submit in writing the proposed individualized program of study to the General Studies Council. The proposal shall state the purpose and objectives of the program of study and include a detailed supporting letter from the faculty member who agrees to be the primary advisor. This proposal must be presented early enough so that the student has at least two full semesters of regularly enrolled course work remaining before graduation. The Council will decide approval of the proposed program by a review which will consider the intellectual coherence of the program, the program relevance to career objectives, and the academic qualifications of the applicant.

All proposals must satisfy the following minimum general requirements:

1. A minimum of 63 semester hours of academic work
2. Earn at least 25 percent of the semester hours required for the degree through instruction at NSU.
3. Earn at least a C (2.0) average in all courses used to satisfy degree requirements.
4. Earn at least a C (2.0) average in all courses taken at NSU which are used to satisfy degree requirements.
5. English 1010 and 1020 (these courses may not be used in satisfying the academic group requirements).
6. Six semester hours of mathematics selected from the University Core Requirements for the Baccalaureate Degree (these courses may not be used in satisfying the academic group requirements).
7. Three semester hours of social sciences (this course may be used in satisfying the academic group requirements).
8. Orientation 1010.
9. Nine semester hours of enrichment electives in each of three groups selected from the academic groups listed below.
10. An additional nine semester hours in one of the three groups chosen as enrichment electives, with the exception of business. Students may apply toward the degree a maximum of 15 semester hours in courses offered in the Division of Business.

Academic Groups for the Associate of General Studies Degree

Applied Sciences

aviation technology, agriculture, animal science, aviation science, forestry, family and consumer sciences, industrial technology, nutrition, nursing, plant and soil science, military science

Art

art, dance, music, photography, theatre

Behavioral Sciences

education, health and physical education, special education, educational psychology, psychology

Business

accounting, business administration, computer information systems, finance, management, marketing, office administration

Humanities

English, fine arts, history, humanities, languages, philosophy, speech, journalism

Natural Sciences

biology, botany, chemistry, computer applications, computer science, geology, mathematics, microbiology, physics, science, zoology

Social Sciences

anthropology, economics, political science, social studies, sociology, geography, criminal justice

Academic departments have sponsored General Studies programs leading to the Associate of General Studies degree in the following areas: Aviation Science, Child Development, and Criminal Justice. Students wishing to pursue one of these programs are not required to submit an individual proposal but must satisfy all requirements established by the sponsoring department. The special requirements for these programs, with the sponsoring department indicated in parentheses, are given below. Interested students should contact the department concerned.

AVIATION SCIENCE (Science and Technology): Aviation Science 1050, 1060, 1101, 2050, 2101, 2121, 3040, 3101, 4100, 4201; business electives, 6 hours. Total: 36 hours.

CHILD DEVELOPMENT (Family and Consumer Sciences): Family and Consumer Sciences, 1060, 1070, 1120, Early Childhood Education 2000-2001, 2070, 2090, 3000; Nutrition 1050, Psychology 1010 or 2450; Early Childhood Education 3010-3011; Art 2040; Music 2100; History 2010; Library Education 4160; Health 1010; Science 1010. Total: 45 hours.

CRIMINAL JUSTICE (Social Sciences): Criminal Justice 1100, 2400, 2160, 2300, 2500; criminal justice and social science electives, 12 hours; Psychology 1010; Sociology 1010, 2020. Total: 36 hours.

COLLEGE OF LIBERAL ARTS

Room 213, Kyser Hall
318-357-4332

Dean: Donald W. Hatley, *Professor*

Departments Within the College of Liberal Arts

Department of Creative and Performing Arts
Department of Journalism
Department of Language and Communication
Department of Psychology
Department of Social Sciences

Mission of the College of Liberal Arts

The College of Liberal Arts provides a superior undergraduate education in Journalism, the Social Sciences, English, Psychology, and the Fine Arts. Faculty members in the College, educated in the finest universities both in the United States and abroad, are dedicated to teaching using traditional and non-traditional instructional methods, as well as modern information technologies. The College of Liberal Arts seeks to attract highly qualified students to master's programs in the Fine Arts, English, Psychology, and Social Sciences and to place graduates in the best doctoral programs and professional positions. The faculty of the College also seeks to remain on the cutting edge of scholarship and artistic production as reflected in books and articles accepted by leading publishing houses scholarly journals. Artistic efforts created in the College of Liberal Arts are presented at nationally respected galleries and performance centers.

Degrees Offered Through the College of Liberal Arts

Bachelor of Arts in Anthropology
Bachelor of Arts in Art
Bachelor of Arts in English
Bachelor of Arts in History
Bachelor of Arts in Journalism
Bachelor of Arts in Political Science
Bachelor of Arts in Social Science
Bachelor of Arts in Social Work
Bachelor of Arts in Sociology
Bachelor of Science in Advertising Design
Bachelor of Science in Psychology
Bachelor of Music in Music (see associated concentrations)
Bachelor of Music Education in Music Education (see associated concentrations)

Master of Arts in Art
Master of Arts in English
Master of Arts in History
Master of Science in Clinical Psychology
Master of Music (see associated concentrations)

Pre-Professional Programs

Pre-Law

DEPARTMENT OF CREATIVE AND PERFORMING ARTS

Department Head: William Brent, Associate Professor
Professors: B. Allen, Bryant, Bullock, B. Hunt, Murphy, Wann
Associate Professors: G. Adams, Mathis, Rodriguez, Rose, Seigler, T. Smith, Yankowski
Assistant Professors: Brazo, Coreil, Downs, Ford, Foster, Green, Hirshfield,
McDermott, Parrish, Rorex, Stacy
Instructors: C. Adams, C. Allen, DeFee, Sanders, Slatter

Degree Programs Available Through the Department of Creative and Performing Arts

- Bachelor of Arts in Art
- Bachelor of Arts in Theatre
- Bachelor of Science in Advertising Design
- Bachelor of Music in Music (see associated concentrations)
- Bachelor of Music Education in Music Education (see associated concentrations)
- Master of Art
- Master of Music (see associated concentrations)

Bachelor of Arts in Art

Art Major Requirements: (49 semester hours) Students seeking a major in Art must complete 49 semester hours, within the 123 semester hour Art curriculum, which include Art 1010, 1020, 1060, 1070, 1220, 1230, 2000, 2010, 2020, 2090, 3010, 3110, 4030, 4100, Photography 1050, and Fine Arts 1040.

Art Minor Requirements: (21 semester hours) Art 1010, 1060, 1070; Fine Arts 1040; and nine semester hours of Art electives.

Curriculum for Bachelor of Arts in Art (211)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Art 1010, 1020, 1060, 1070.....	12	Art 1220, 1230, 2000, 2010, 2020, 2090.....	18
English 1010, 1020	6	English or speech ¹	3
Fine Arts 1040.....	3	English literature ¹	3
Health and personal fitness ¹	4	History ¹	3
Mathematics ¹	6	Psychology 1010.....	3
Orientation 1010	1	Science ¹	6
	32		36
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Art 3010, 3110	6	Art 4100, 4030	6
Electives ³	6	Electives ³	9
Foreign language ²	6	Foreign language ²	6
Photography 1050	4	Philosophy 4030.....	3
Science ¹	3		24
Social science ¹	6		
	31		

Total Semester Hours for Degree: 123

Footnotes:

- ¹ Refer to University core requirements.
- ² All twelve semester hours must be in the same foreign language — 1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).
- ³ Electives must be chosen so as to complete a minor as defined by the department concerned.

Bachelor of Science in Advertising Design

Advertising Design Major Requirements: (67 semester hours) Students seeking a major in Advertising Design must complete 67 semester hours, within the 123 semester hour Advertising Design curriculum, which include Art 1010, 1020, 1060, 1070, 1110, 1120, 1220, 1230, 2010, 2020, 2050, 2090, 2100, 2110, 3100, 3250, 4030 (6 hours), 4100, three hours in a special phase of art chosen by the student, Photography 1050, and Fine Arts 1040.

Curriculum for Bachelor of Arts in Advertising Design (212)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Art 1010, 1020, 1060, 1070, 1110, 1120	18	Art 1220, 1230, 2010, 2020, 2050, 2090, 2100, 2110	24
English 1010, 1020	6	English or speech ¹	3
Health and personal fitness ¹	4	English literature ¹	3
Mathematics ¹	6	Fine Arts 1040	3
Orientation 1010	1	Psychology 1010	3
	35		36
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Art 3100, 3250, 4030	9	Art 4030, 4100, electives	9
Electives	3	Electives	6
History ¹	3	Journalism 2010 or 3510	3
Photography 1050	4	Science ¹	3
Science 1010, 1020	6	Social science ¹	3
Social science ¹	3		24
	28		

Total Semester Hours for Degree: 123

Footnotes:

¹ Refer to University core requirements.

Senior Exhibition

Graduating seniors will be required to demonstrate studio competence by presenting a public exhibition for faculty committee evaluation. Specific areas of deficiency will require additional study. All art; advertising design, and art education students must take Art 4030 the last semester of the senior year to satisfy senior exhibition requirements.

Bachelor of Music in Music

Music Major Requirements: (84 semester hours) Students seeking a major in Music must complete 84 semester hours, within the 137 semester hour Music curriculum, which include Music 1050, 1060, 2050, 2060, 2070, 2080, 3070, 3080, 3090, 4010, 4060, 4150, 4390; 26 semester hours in the major performance area (including recital); eight semester hours in ensemble; eight semester hours in a minor performance study appropriate to the degree; and six semester hours of Music 1500

Music Minor Requirements: (select from one of the areas below)

Performance: (26 semester hours) Music 1050, 1060, 2070, 2080; 12 semester hours in performance instruction (at least eight of these being in major performance area); four semester hours of music electives (must include a music ensemble).

Music Theory: (26 semester hours) Music 1050, 1060, 2050, 2060, 2070, 2080; six semester hours in a major performance area; four semester hours of music electives (must include a music ensemble).

Fees and Special Requirements

Special Requirements: Music majors are required to attend recitals and concerts and to participate in performing ensembles, as listed in the individual curricula in this catalog. All music majors must pass a proficiency examination in piano. Music majors are required to practice a minimum of one hour a day for each credit hour of major applied study and one-half hour a day for each credit hour of minor applied study. Students seeking a double major have a residency requirement of five years, or four years and three summers.

Private Lessons: To enroll in private lessons, a student must be a full-time student at NSU. Exceptions to this rule require approval of the head of the Department of Creative and Performing Arts, the Dean of Liberal Arts, and the Vice President for Academic Affairs.

Fees: There are no special fees for music majors and students within a declared music minor or those performing with major ensembles. Other students pay a fee of \$60 a semester for one one-hour private lesson per week and \$30 for one half-hour private lesson per week. They must also pay a fee of \$5 a semester for renting a practice room for one hour a day and \$2 for each additional hour.

Curriculum for Bachelor of Music in Music (242)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
English 1010, 1020	6	English or speech ³	3
Ensembles ¹	2	English literature ³	3
Fine Arts 1040	3	Ensembles ¹	2
Mathematics ³	6	Foreign language ⁴	6
Music 1050, 1060, 1500, 1710	14	Music 1500, 1710, 2050, 2060, 2070, 2080	18
Orientation 1010	1	Piano ²	2
Piano ²	2	Science ³	3
	34		37
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Ensembles ¹	2	Ensembles ¹	2
Foreign language ⁴	3	Health and personal fitness ³	4
Music 1500, 3070, 3080, 3090, 3710, 4150	19	History ³	3
Performance elective ⁵	2	Music 3710, 4010, 4060, 4390, 4720	17
Science ³	3	Performance elective ⁵	2
Social science ³	3	Science ³	3
	32	Social science ³	3
			34

Total Semester Hours for Degree: 137

Footnotes:

- ¹ Instrumental students must participate in two performing ensembles each semester of residence, to be assigned to band or orchestra as needed. Keyboard students must enroll for at least two semesters of a major performing ensemble. Vocal music students must participate in performing ensembles each semester of residence and will be assigned to Music 1320, 1330, and 1430 as needed.
- ² Piano majors should enroll in two semesters of Music 1650 and two semesters of Music 1440.
- ³ Refer to University core requirements.
- ⁴ All nine hours of foreign language requirement must be in either French or German, except that vocal music students may elect to take six hours of French or German and three hours of the other languages.
- ⁵ Piano students must take performance elective other than piano. Vocal music students must take piano.
- NOTE:** Proficiency requirement in major performance area must be satisfied prior to being admitted to 3710-level study. Music majors must earn at least a "C" (2.0) in each music course, in order for those courses to be credited as completed prerequisites or to count as graduation requirements.

Bachelor of Music Education in Music Education

Music Education Major Requirements: (68 semester hours) Students seeking a major in Music Education must complete 68 semester hours, within the 159 semester hour Music Education curriculum, which include a 35 semester hour Music Education core and a 33 semester hour concentration.

Core: (35 semester hours) Music 1050, 1060, 2050, 2060, 2070, 2080, 3070, 3080, 3090, 3110, 4010, six semester hours of 1500

Concentration: (33 semester hours as defined below)

Available Concentrations: (33 semester hours each)

Instrumental Music, All-level certification: Music 4050; a minimum of 14 semester hours on the major instrument; a minimum of four semester hours of piano; 12 semester hours of instrumental techniques which must include credit in woodwind, brass, string, and percussion instruments.

Vocal Music: Voice, All-level certification: Music 4520, 4150 (Vocal Pedagogy); a minimum of 14 semester hours in applied voice; a minimum of 10 semester hours of piano ,three semester hours of diction.

Vocal Music: Piano, All-level certification: Music 4520, 4150 (Vocal Pedagogy); a minimum of 14 semester hours in applied piano, a minimum of 12 semester hours of voice, one semester hour of accompanying.

Curriculum for Bachelor of Music Education in Music Education (324)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Education 2020	3	Educational Psychology 3000	3
English 1010, 1020	6	English 3210, literature ¹	6
Ensembles ²	2	Ensembles ²	2
Fine Arts 1040	3	Music 1500, 1710, 2050, 2060, 2070, 2080	16
Health and personal fitness ¹	4	Performance electives or instrumental technique ³	4
Mathematics 1020, 1060	6	Science 1010, 1020	6
Music 1050, 1060, 1500, 1710	12	Social science ¹	3
Orientation 1010	1		40
Performance electives or instrumental technique ³	4		
	41		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Education 3020, 3140	4	Education 4010, 4020 ⁴ , 4040 ⁴	15
Educational Psychology 3010	3	Ensembles ²	1
Ensembles ²	2	History 2010 or 2020	3
Music 1500, 3070, 3080, 3090, 3100, 3710	16	Music 3710, 4010	5
Performance electives or instrumental technique ³	4	Music 4050 or 4520	3
Science ¹	6	Performance electives or instrumental technique ³	4
Social science ¹	6	Reading 4080	3
	41	Special Education 3460	3
			37

Total Semester Hours for Degree: 159

Footnotes:

¹ Selected to meet University core requirements.

² Ensemble participation is to be appropriate to the major performance area and subject to stated departmental policies.

³ Instrumental concentration must elect Music 1840, 1850, 1860, 1870, 1880 and 1890 plus four hours of piano. Vocal concentration must elect 10 hours of piano, 3 hours of diction and Music 4150C. Piano concentration must elect 12 hours of voice, Music 4150C and one hour of accompanying.

⁴ Student teaching constitutes a full academic load for one semester.

⁵ Instrumental students should take Music 4050. Voice and piano concentration must take Music 4520.

NOTE: Proficiency requirements in major performance areas must be satisfied prior to being admitted to 3710-level performance course.

Graduate Program in Music

Master of Music (542)

Undergraduate preparation: bachelor's degree in music or music education meeting undergraduate requirements.

Major in Music Education: a minimum of 30 semester hours, at least 12 hours in the major area; 12 hours in cognate studies in music (music history and literature, music theory and analysis, performance, composition); six hours in electives or thesis. Two formal papers, or a recital and performance document, may be submitted in lieu of a thesis.

Special requirements for the Master of Music degree: Participation as needed (at least two semesters) in performing ensembles, without degree credit. Music 5010 may be required without degree credit on basis of entrance examination scores. Music 5900 is required of all students.

Bachelor of Arts in Theatre

Theatre Major Requirements: (43 semester hours) Students seeking a major in theatre must complete 43 semester hours, within the 123 semester hour theatre curriculum, which include Speech 1020, Theatre 1010 (2 semester hours), 2300, 2310, 2320, 2340, 2350, 2360, 3010 (3 semester hours), 3220 or 3120, 3320 or 2330, 3350, 3370, 3380 or other approved theatre literature electives, 4360, and 4370.

Theatre Minor Requirements: (24 semester hours) Theatre 1010 and/or 3010 (two semester hours), 2300, 2310, 2320, 2360, 3010 (one semester hour), 3350, 3370, Speech 1020 or three semester hours of approved theatre electives.

Curriculum for the Bachelor of Arts in Theatre (245)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
English 1010, 1020	6	Electives ²	2
Mathematics ¹	3	English literature ¹	3
Orientation 1010	1	Foreign language ³	6
Speech 1010, 1020	6	Health and personal fitness ¹	4
Theatre 1010, 2300, 2310, 2320, 2340, 3320 or 2330	15	Mathematics ¹	3
	31	Science ¹	3
		Theatre 1010, 2360, 3350, 3370, 4370	13
			34
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Dance 3060	2	Electives ²	16
Electives ²	6	History ¹	3
Fine Arts 1040	3	Science ¹	3
Foreign language ³	6	Theatre 3010, 3220 or 3120, 4360, ...	5
Science ¹	3		27
Social science ¹	6		
Theatre 2350 ⁴ , 3380	5		
	31		

Total Semester Hours for Degree: 123

Footnotes:

¹ Refer to University core requirements.

² Electives must be chosen so as to complete a minor as defined by the department concerned.

³ All twelve semester hours must be in the same foreign language—1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).

⁴ Students interested in Design/Technology may substitute a technical theatre course.

Minor in Dance

Dance Minor Requirements: (25 semester hours) Dance 1010, 2590, 3070, 3080; Theatre 2310; 12 semester hours of dance technique (six hours in one performance area).

Minor in Photography

Photography Minor Requirements: (23 semester hours) Photography 1050, 2150, 3140, 3150, 3200, and 4250.

DEPARTMENT OF JOURNALISM

Department Head: Ronald McBride, Associate Professor

Professor: Burroughs

Associate Professor: Whitehead

Assistant Professors: Byrd, Horton, Swain

The Department of Journalism places the highest premium on excellence in teaching. Instruction takes place in an environment designed and equipped to facilitate learning. The department provides a program of study that offers students from diverse academic and cultural backgrounds the opportunity to prepare for a professional degree. Students are exposed to academic theory and principles of instruction and to practical application. The goal of instruction is to develop the knowledge and critical thinking skills necessary to prepare our graduates for employment or advanced studies in their chosen field. The Department of Journalism is committed to using technology to transcend the boundaries of the community and region it serves, connecting students and faculty to the world electronically to enhance learning and raise sensitivity to, and understanding of, communication in a global community.

Bachelor of Arts in Journalism

Journalism Major Requirements: (33 semester hours) Students seeking a major in Journalism must complete 33 semester hours, within the 125 semester hour Journalism curriculum, which include a 12 semester hour Journalism core and a 21 semester hour concentration. (A "C" or better is required for all journalism classes to complete requirements for graduation. For journalism majors and minors, Journalism 2510 must be completed before enrolling in all other journalism classes except JOUR 2010.)

Core: (12 semester hours) Journalism 2010, 2510, 3040, 4200

Concentration: (21 semester hours as defined below)

Journalism Minor Requirements: (21 semester hours) Journalism 2010, 2510, 3040; a three semester hour Journalism elective; and nine semester hours from one of the following categories: **broadcast**, Journalism 3450, 4400, 4440; **news-editorial**, Journalism 2520, 3080, 3530; **public relations**, Journalism 3060, 3260, 3660, 4060.

Available Concentrations: (21 semester hours each)

Broadcast: Journalism 3260, 3420, 3450, 3470, 4400, 4440, three semester hour journalism elective.

News-Editorial: Journalism 2520, 2610, 3080, 3260, 3530, 4010, three semester hour journalism elective.

Public Relations: Journalism 3060, 3260, 3530, 3660, 4060, 4450, three semester hour journalism elective.

Curriculum for Bachelor of Arts in Journalism (231)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
English 1010, 1020 ⁶	6	English ²	3
Foreign language ¹	6	Fine Arts 1040.....	3
Journalism 2010.....	3	Foreign language ¹	6
Mathematics ²	6	Health and personal fitness ²	4
Orientation 1010.....	1	Journalism 2510 ⁶	3
Science ²	6	Philosophy 2020.....	3
Speech 1010.....	3	Political Science 2010, 2020.....	6
	31	Science ²	3
		Social science ²	3
			34
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Electives ⁴	9	Electives ⁴	9
English ²	3	Journalism 4200.....	3
Economics 2010.....	3	Journalism concentrations ³	12
History ²	3	Marketing 3230.....	3
Journalism 3040.....	3	Sociology 4200.....	3
Journalism concentrations ³	9		30
	30		

Total Semester Hours for Degree: 125

Footnotes:

¹ All twelve semester hours must be in the same foreign language—1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).

² Refer to University core requirements.

³ Chosen from concentration.

⁴ Electives are chosen to complete a minor as defined by department concerned. Marketing 3820 must be taken for public relations concentration.

⁵ 3000 or 4000 level course

⁶ A "C" or better in English 1010 and 1020 is a prerequisite for Journalism 2510.

DEPARTMENT OF LANGUAGE AND COMMUNICATION

Department Head: Garry Ross, *Professor*

Professors: Burroughs, Hatley, Norman, Wallace, Rubino

Associate Professors: Cameron, Coats, Ford, D. McCorkle, Means, Razovsky

Assistant Professors: Barber, Colavito, Gorski

Instructors: Ahrens, Bonner, Erath, Foster, Goggan, Pratt-Panford, M. Swain, Theus, Wiggins, S. Wallace

Bachelor of Arts in English

English Major Requirements: (42 semester hours) A major in English requires successful completion of 42 semester hours, within the 122 semester hour English curriculum, which include a six semester hour English core and a 36 semester hour concentration.

Core: (six semester hours) English 1010, 1020

Concentration: (36 semester hours as defined below)

English Minor Requirements: (24 semester hours) English 1010, 1020, six hours of English at the sophomore level, and 12 semester hours of advanced English.

Available Concentrations: (36 semester hours each)

Literature: English 2070, 2080, 3100, 3150, 3160, and 3170; three semester hours from English 3200, 4000, 4100, 4110 or 4660; three semester hours from English 4620 or 4630; English 4050; and nine semester hours of advanced English literature courses.

Professional Writing: English 2050 and 2060 or 2070 and 2080, 2510, 2610; three semester hours from 3200 or 4660; three semester hours from 4000, 4100, 4110; and 18 semester hours of advanced English writing courses.

Curriculum for Bachelor of Arts in English (221)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Elective ²	3	Electives ²	9
English 1010, 1020.....	6	English 2070 and 2080 ³	6
Health and personal fitness ¹	4	Fine Arts 1040.....	3
History 1010, 1020 or 2010,2020.....	6	Foreign language ⁴	6
Mathematics ¹	6	Science ¹	3
Orientation 1010.....	1	Social science ¹	3
Science ¹	6		30
	32		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
English 3100, 3150, 3160, and 3170 ⁵	12	English (advanced) ⁵	9
English 4620 or 4630.....	3	Electives ²	15
Foreign language ⁴	6	English 3200, 4000, 4100, 4110, or 4660.....	3
Philosophy.....	3	English 4050 ⁶	3
Electives ²	6		30
	30		

Total Semester Hours for Degree: 122

Footnotes

- ¹ Refer to University core requirements.
- ² Electives must be chosen so as to complete a minor as defined by the department concerned.
- ³ Students in professional writing concentration may take 2050 and 2060 instead of 2070 and 2080.
- ⁴ All twelve semester hours must be in the same foreign language—1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).
- ⁵ Students in professional writing concentration will take 12 hours of advanced courses applicable to the concentration.
- ⁶ Students in professional writing concentration will take three hours of upper-level writing instead of English 4050.

Graduate Requirements

Masters of Arts in English (529)

Undergraduate preparation: an undergraduate major of at least 27 semester hours of English.
Foreign Language: Six semester hours of one foreign language on the sophomore level.
All students must take English 5800. All students awarded teaching assistantships must also take English 5280. These required courses do count as hours toward the degree.
A satisfactory written comprehensive examination.
Every thesis requires six hours of enrollment in English 5980 and an oral defense. All non-thesis degree plans require two research reports in lieu of thesis, to be approved by the student's degree committee and submitted to the Dean of the Graduate Studies and Research.

Degree Options

Every student will select one of the following:

- Literature offers two options:
 - (A) 24 hours of course work and a thesis.
 - (B) 30 hours of course work and two research reports in lieu of a thesis.All graduate students pursuing the Literature concentration are required to take one seminar in a major literary figure: 5100 (Chaucer), 5150 (Shakespeare), 5200 (Milton), or 4750 (Seminar: Major Authors); credit from a previous undergraduate course does not fulfill this requirement.

2. Folklife offers two options:
 - (A) 24 hours of course work and a folklore thesis.
 - (B) 30 hours of course work and two folklore research reports in lieu of thesis. Required courses include English 5980, 5600, 5270 and 5271.
3. Writing and Linguistics offers two options:
 - (A) 24 hours of course work and a writing and linguistics thesis.
 - (B) 30 hours of course work and two writing and linguistics research reports in lieu of a thesis. Required courses include English 5280 and at least 12 hours of linguistics and/or rhetoric.

Foreign Language Minor

Foreign Language Minor Requirements: (21 semester hours) A minor in French, German or Spanish can be earned by completing 21 semester hours in any one language.

Speech Minor

Speech Minor Requirements: (24 semester hours) Speech 1010, 1210, 2050, 2500, 3120, 4010, 4020, and 4030.

DEPARTMENT OF PSYCHOLOGY

Coordinator: Terry Isbell, *Assistant Professor*

Professor: McHale

Assistant Professors: Hansen, Lauterbach, Moulton

Instructor: Barnett, S.

Degrees Offered Through the Department of Psychology:

Bachelor of Science in Psychology

Master of Science in Clinical Psychology

Bachelor of Science in Psychology

The Psychology curriculum is designed to prepare the psychology major for graduate work in professional psychology by emphasizing research skills and clinical theory. This science based curriculum follows the American Psychological Association's guidelines for undergraduate training in psychology.

Psychology Major Requirements: (39 semester hours) Students seeking a major in Psychology must complete 39 semester hours, within the 124 semester hour Psychology curriculum, which include Psychology 1010, 2430, 3010, 3020, 3070, or 3080, 4400, 4410, 4450, 4480, 4650, three semester hours of advanced level psychology electives and six semester hours of psychology electives as approved by the advisor. Special requirements: Science 1010; Biology 1011, 1021 or Zoology 1220-1221; Computer 1020 or Computer Information Systems 1800 or SCSC 1810 or the equivalent. Majors may not count any grade in psychology lower than a C towards the major.

Psychology Minor Requirements: (21 semester hours) Psychology 1010, 2430, 4400, 4410, 4450 or 4470, six semester hours of psychology electives.

Curriculum for Bachelor of Science in Psychology (392)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Biology 1010-1011.....	4	Electives	6
Biology 1020-1021 or		English literature ¹	3
Zoology 1220-1221	4	English or Speech ¹	3
English 1010-1020	6	Fine Arts 1040	3
Mathematics ¹	6	Health and personal fitness ¹	2
Orientation 1010	1	History ¹	3
Psychology 1010, elective	6	Psychology 2430, 4400	6
Science 1010	3	Social science ¹	3
Social science ¹	3	Computer 1020 or CIS 1800 or SCSC 1810 ...	3
	33		32

THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Electives	18	Electives	12
Health and personal fitness ¹	2	Psychology 3070 or 3080, 4410,	
Psychology 3010,3020, 4450, elective	12	4480, 4650 elective	15
	32		27

Total Semester Hours for Degree: 124

Footnotes

¹ Refer to University core requirements.

Graduate Requirements

Master of Science in Clinical Psychology¹ (552)

Undergraduate preparation for a major: 18 semester hours in psychology including at least three semester hours from each of the following areas: statistics, test and measurements, abnormal, and experimental.

Special requirements for a major: Psychology 5100, 5120, 5200-5201, 5250-5251, 5300-5301, 5320-5321, 5400, 5790-5791, 5500 (six hours), 5750, 5900, 5980, (six hours), 5780, either 6020 or 6800 or 5820 and three hours of electives as approved by graduate committee; a minimum of 51 semester hours.

¹ In correcting deficiencies, only credits earned with a minimum grade of B will be accepted.

DEPARTMENT OF SOCIAL SCIENCES

Department Head: Kathleen Byrd, *Professor*

Professors: Gregory, LeBreton, Malone, J. McCorkle, Pippin, Taylor

Associate Professors: Aichinger, Braudaway, Keenan, J. Price, Triche

Assistant Professors: Conklin, Gowda, Granger, Hailey, Hillebrand, Morris, Murphy, Smith, Sutton, Tyler

Instructors: Boyette, Feldt, Lewis

Degrees Offered Through the Department of Social Sciences:

- Bachelor of Arts in Anthropology
- Bachelor of Arts in Criminal Justice
- Bachelor of Arts in History
- Bachelor of Arts in Political Science
- Bachelor of Arts in Sociology
- Bachelor of Arts Social Sciences, General
- Bachelor of Arts in Social Work
- Master of Arts in History

Pre-professional Programs Offered Through the Department of Social Sciences:

Pre-Law

Bachelor of Arts in Anthropology

Anthropology Major Requirements: (33 semester hours) Students seeking a major in Anthropology must complete 33 semester hours within the 124 semester hour Anthropology curriculum, which include Anthropology 2010, 2020, 3020, 4080, and 21 additional semester hours in Anthropology.

Anthropology Minor Requirements: (21 semester hours) Anthropology 2010, 2020, and 15 additional semester hours in Anthropology.

Curriculum for Bachelor of Arts in Anthropology (251)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Anthropology 2010, 2020	6	Computer	3
Biology 1010-1011, 1020-1021	8	Anthropology 3020	3
English 1010, 1020	6	Anthropology elective	3
Health & personal fitness ¹	4	English or speech ¹	3
Mathematics ^{1,2}	6	Fine Arts 1040	3
Orientation 1010	1	Foreign Language ⁵	6
	31	Geography 2010	3
		History ¹	3
		Science ¹	3
			30

THIRD YEAR	SEM. HRS.
Anthropology 4080	3
Anthropology electives ¹	9
Electives ⁴	12
Foreign Language ⁵	6
Psychology 1010	3
	<u>33</u>

FOURTH YEAR	SEM. HRS.
Anthropology electives	9
Electives ³	18
English literature ¹	3
	<u>30</u>

Total Semester Hours for Degree: 124 hrs

Footnotes:

¹ Must meet University core requirements.

² Students who plan to specialize in archeology, physical anthropology or pursue a graduate degree in anthropology should take Mathematics 1020 and 1090.

³ Electives must be chosen so as to complete a minor as defined by the department concerned.

⁴ Excluding anthropology.

⁵ All twelve semester hours must be in the same foreign language-1010, 1020, 2010, 2020 (in German 2030 or 2050 instead of 2020).

Bachelor of Arts in Criminal Justice

Criminal Justice Major Requirements: (36 semester hours) Students seeking a major in Criminal Justice must complete 36 semester hours within the 125 semester hour Criminal Justice curriculum, which include Criminal Justice 1100, 2160, 2300, 2400, 2500, 3350, 3360, 4450, 4460; Sociology 3040, 3090, 4500.

Criminal Justice Minor Requirements: (21 semester hours) Criminal Justice 1100, 2300, 2400, 2500, and nine semester hours of advanced criminal justice.

Curriculum for Bachelor of Arts in Criminal Justice (250)

FIRST YEAR	SEM. HRS.
Computer 1020	3
English 1010, 1020	6
Mathematics ¹	6
Orientation 1010	1
Science ¹	6
Sociology 1010	3
Criminal Justice 1100, 2160	6
	<u>31</u>

SECOND YEAR	SEM. HRS.
Science ¹	3
Fine Arts 1040	3
Psychology 1010	3
Foreign language ²	6
Sociology 2020	3
Health and personal fitness ¹	4
Criminal Justice 2300, 2400, 2500	9
Political Science 2010	3
	<u>34</u>

THIRD YEAR	SEM. HRS.
History ¹	3
Psychology 2450	3
English ¹	3
Criminal Justice 3350, 4450	6
Sociology 3040, 4250	6
Foreign language ²	6
Political Science 3090	3
	<u>30</u>

FOURTH YEAR	SEM. HRS.
Sociology 4200	3
Criminal Justice 3360, 4460	6
Sociology 4500, 3090, 4080	12
English 3230 ³	3
Elective ⁴	9
	<u>30</u>

Total Semester Hours for Degree: 125

Footnotes:

¹ Must meet university core requirements.

² All twelve semester hours must be in the same foreign language-1010, 1020, 2010, 2020 (in German 2030 or 2050 instead of 2020).

³ Substitutes for English 3210 core requirement

⁴ Computer 2010 recommended for one of these electives. Other electives must be upper level.

Bachelor of Arts in History

History Major Requirements: (36 semester hours) Students seeking a major in History must complete 36 semester hours within the 124 semester hour History curriculum, which include History 1010, 1020, 2010, 2020, 3990, and 21 semester hours of advanced European and American history courses, nine of which must be in one field and 12 in the other.

History Minor Requirements: (21 semester hours) History 1010, 1020, 2010, 2020 and nine hours of advanced history.

Historic Preservation Minor Requirements: (18 semester hours) 3150, 3160, 3500, 4200, 4300, three hours selected from 4500, 4900 or any upper level course in History Preservation.

Curriculum for the Bachelor of Arts in History (261)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
English 1010, 1020	6	Computer information systems	3
Geography 1010 or 1020	3	Elective ³	3
History 1010, 1020.....	6	English literature ¹	3
Mathematics ¹	6	English or speech ¹	3
Orientation 1010	1	Foreign language ⁴	6
Science ¹	6	Health and personal fitness ¹	4
Social science ²	3	History 2010, 2020.....	6
	31	Science ¹	3
			31
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Fine Arts 1040.....	3	Elective ³	20
Electives ³	9	History electives.....	12
History 3990.....	3		32
History electives.....	9		
Foreign Language ⁴	6		
	30		

Total Semester Hours for Degree: 124

Footnotes:

- ¹ Must meet University core requirements.
- ² Excluding history.
- ³ The electives must be chosen so as to complete a minor as defined by the department concerned.
- ⁴ All twelve semester hours must be in the same foreign language-1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).

Graduate Requirements

Master of Arts in History (534)

Plan A: History major designed primarily for students who wish to pursue studies beyond the master's program.

Undergraduate preparation: 33 semester hours in the social sciences, including 15 hours of history; demonstrated proficiency in French, German, Spanish or other foreign language approved by the student's graduate committee, or 12 semester hours of undergraduate credit or the equivalent in one of the languages; demonstrated proficiency in the use of English, to be determined by examination not later than a student's first semester in residence.

Requirements: 30 semester hours including History 5010, 5980, and 21 hours of advanced history including a minimum of six hours in courses numbered 5000 or above.

Plan B: History major designed primarily for junior college instructors and those preparing for nonacademic professional careers: archivists, governmental employees, etc.

Undergraduate preparation: Same as Plan A, excluding the undergraduate foreign language requirement.

Special requirements: 33 semester hours, including at least 24 hours of advanced history and an acceptable research paper in history in lieu of a thesis. (Nine hours may be taken in another related field.)

Plan C: History major designed primarily for those students who wish to pursue professional careers in applied fields of cultural/historical resource management, historic preservation, public programming and community history.

Undergraduate preparation: A baccalaureate degree with 15 hours in history.

Requirements: 42 semester hours including 3150, 5010, 5200, 5400, 5980, and three hours of 5960; Anthropology 4120, 4130, 5010; Historic Preservation 4500; and nine hours of advanced history and three hours of advanced anthropology.

Minor in Philosophy

Philosophy Minor Requirements: 1010, 2030, either SPHI 2830 or 2840, either SPHI 3810 or 3820, and four additional hours of philosophy selected from courses with PHIL or SPHI prefix. SPHI 2830, 2840, 3810, and 3830 are offered through the Scholars' College.

Bachelor of Arts in Political Science

Political Science Major Requirements: (33 semester hours) Students seeking a major in Political Science must complete 33 semester hours within the 125 semester hour Political Science curriculum, which include Political Science 2010, 2020, 2910, 3090, 4150, and 18 semester hours of political science electives with at least six semester hours in each subfield of American studies and international studies.

Political Science Minor Requirements: (21 semester hours) Political Science 2010, 2020, 2910, and 12 semester hours selected from advanced political science courses.

Curriculum for Bachelor of Arts in Political Science (254)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
English 1010, 1020	6	Economics 2000	3
Health and personal fitness ¹	4	Electives ³	9
History 1020, 2010	6	Political Science 2910	3
Mathematics ¹	6	Foreign language ²	6
Orientation 1010	1	Geography 1020	3
Political Science 2010, 2020	6	Political science electives	3
Science ¹	3	Computer 1020	3
	<u>32</u>		<u>30</u>
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Electives ³	9	Electives ³	9
Fine Arts 1040	3	Political science ⁴	15
Foreign language ⁵	6	Psychology 1010	3
Political Science 3090, 4150	6	English or speech ¹	3
Science ¹	6		<u>30</u>
English literature ¹	3		
	<u>33</u>		

Total Semester Hours for Degree: 125

Footnotes:

¹ Must meet University core requirements.

² Excluding political science.

³ Electives must be chosen so as to complete a minor as defined by the department concerned.

⁴ At least six semester hours in American Studies (3020, 3030, 3060, 3130, 4050, 4190), and at least six semester hours in International Studies (4060, 4070, 4080, 4090).

⁵ All twelve semester hours must be in the same foreign language-1010, 1020, 2010, 2020 (in German 2030 or 2050 instead of 2020).

Bachelor of Arts in Social Sciences, General

Social Science Major Requirements: (39 semester hours) Students seeking a major in Social Science must complete 39 semester hours within the 122 semester hour Social Science curriculum, which include anthropology, economics, geography, history, philosophy, political science, psychology, sociology, and social studies with a minimum of 21 semester hours in one discipline and 18 semester hours in a second discipline.

Social Science Minor Requirements: (27 semester hours) 27 semester hours in the social sciences, with six semester hours in one field of the social sciences and nine semester hours at the 3000 level or above.

Curriculum for Bachelor of Arts Social Sciences, General (255)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
English 1010, 1020	6	Computer 1020.....	3
Fine Arts 1040.....	3	English literature ¹	6
Health and personal fitness ¹	2	Foreign language ³	6
Mathematics ¹	6	Science ¹	3
Orientation 1010	1	Social science.....	9
Psychology 1010	3	Speech 1010 ¹	3
Science ¹	3		30
Social science ¹	6		
	30		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Electives ²	6	Electives ²	18
Foreign language ³	6	Social science.....	12
Health and personal fitness ¹	2		30
History ¹	3		
Science ¹	3		
Social science.....	12		
	32		

Total Semester Hours for Degree: 122

Footnotes:

¹ Must meet University core requirements.

² Electives must be chosen so as to complete a minor as defined by the department concerned.

³ All twelve semester hours must be in the same foreign language - 1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).

Bachelor of Arts in Social Work

Admission to the Social Work Professional Program

Students must meet the following criteria for admission to the Social Work professional program:

1. Completion of all courses in the pre-professional curriculum.
2. A cumulative grade-point average of 2.5 and above.
3. A minimum grade of C or above in Social Work 2090, 2100, and English 1010 and 1020.
4. Submission of an Application for Admission to the Social Work Professional Program prior to the pre-registration period for the next regular fall or spring semester.

Social Work Major Requirements: (33 semester hours) Students seeking a major in Social Work must complete 33 semester hours within the 122 semester hour Social Work curriculum, which include Social Work 2090, 2100, 3030, 3040, 3120, 3130, 3140, 4030, 4040, 4190 (12), 4450, 4350.

Curriculum for Bachelor of Arts in Social Work (271)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Computer 1020.....	3	English literature ¹	3
English 1010, 1020	6	English ¹ or Speech 1010.....	3
Health and personal fitness ¹	4	Fine Arts 1040.....	3
Mathematics ¹	6	Foreign language ²	6
Orientation 1010	1	History 2010, 2020.....	6
Psychology 1010.....	3	Political Science 2010, 2020.....	6
Science 1010, 1020	6	Science 2020	3
Sociology 1010	3	Social Work 2090, 2100.....	6
	32		36

THIRD YEAR	SEM. HRS.
Electives	6
Foreign language ²	6
Social Work 3030, 3040, 3120 ⁴ , 3130 ⁴ , 4350, 4450	18
	<u>30</u>

FOURTH YEAR	SEM. HRS.
Electives	3
Social Work 3140 ⁴ , 4030, 4040, 4190 ³	21
	<u>24</u>

Total Semester Hours for Degree: 122

Footnotes:

¹ Must meet university core requirements.

² All twelve semester hours must be in the same foreign language - 1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).

³ May be taken concurrently at six semester hours credit per semester for two semesters or in a one semester block placement of twelve semester hours credit.

⁴ Must earn at least a C to be used as a prerequisite for next course.

Criteria for Dismissal from the Social Work Program

A student is subject to dismissal from the social work program at any level for one or more of the following that occurs after enrollment in the program:

1. Failure to earn at least a C when repeating or enrolling for the 2nd time in the same required social work course.
2. Failure to maintain a 2.0 average for two consecutive semesters.
3. Academic cheating or plagiarism.
4. The unlawful and/or unauthorized use, abuse, possession, distribution, transportation, manufacture, concealment, consumption, promotion or sale of alcohol, illegal drugs, legal drugs obtained illegally, controlled substances, or designer drugs.
5. Illegal possession of weapons.
6. Conviction of a felony.
7. Serious violations, as determined by the social work program faculty, of the NASW Code of Ethics.

Appeals

All decisions leading to dismissal from the social work program are subject to appeal following the procedures established by Northwestern State University.

Bachelor of Arts in Sociology

Sociology Major Requirements: (33 semester hours) Students seeking a major in Sociology must complete 33 semester hours within the 122 semester hour Sociology curriculum, which include Sociology 1010, 2020, 3040, 3060, 4080, 4120, 4190, 4200, 4400 and six semester hours of sociology electives, three of which may be anthropology.

Sociology Minor Requirements: (21 semester hours) Sociology 1010, 2020, 3060, 4400, and nine hours selected from sociology including, if desired, not more than three hours in anthropology.

Curriculum for Bachelor of Arts in Sociology (272)

FIRST YEAR	SEM. HRS.
English 1010, 1020	6
Health and personal fitness ¹	2
Mathematics ¹	6
Orientation 1010	1
Psychology 1010	3
Science 1010, 1020	6
Social science ¹	3
Sociology 1010	3
	<u>30</u>

SECOND YEAR	SEM. HRS.
Electives ²	6
English literature ¹	3
Fine Arts 1040	3
Foreign language ³	6
Science ¹	3
Social science ¹	3
Sociology 2020, 3040	6
	<u>30</u>

THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Elective ²	3	Electives ²	21
English or speech ¹	3	Sociology 4200, 4400	6
Foreign language ³	6	Sociology or anthropology	3
History ¹	3		30
Health and personal fitness ¹	2		
Sociology 3060, 4080, 4120,			
4190, elective	15		
	32		

Total Semester Hours for Degree: 122

Footnotes:

¹ Must meet University core requirements.

² Electives must be chosen so as to complete a minor as defined by the department concerned.

³ All twelve semester hours must be in the same foreign language - 1010, 1020, 2010, and 2020 (in German 2030 or 2050 instead of 2020).

Pre-professional Programs

Pre-law (A54B)

All students who expect to enter law school after attending NSU should maintain contact with the pre-law advisor in the Department of Social Sciences, regardless of their majors and in addition to any other advisors. Since a high level of undergraduate academic performance is necessary for admission to law school, the pre-law advisor is prepared to offer special information and counseling to students and will work with the student's advisor and dean in these respects. Students who desire to enter law school may do so by completing any appropriate curriculum. The pre-law advisor will furnish information about majors, minors, and courses which are acceptable to and/or required by law schools.

COLLEGE OF NURSING

1800 Line Ave., Shreveport, LA 71101
318-677-3100

Dean: Norann Planchock, *Professor*

Professors: Airhart, Cook

Associate Professors: Bitowski, Cashio, Cheek, Hayes, Johnson, O'Leary, Peters, Simmons, Thompson

Assistant Professors: B. Barnett, Beard, Bethea, Carter, Clark, Curry, Darfus, M. Dennis, Deshotels, Dockendorf, Evans, Faulk, Fife, Hartt, J. Himaya, Kevil, Landry, Martin, Maziarz, McVey, Middlebrooks, Miller, T. Oberle, Parker, Perkins, Pierce, Plitnick, Rachal, Reppond, Shelton, Singh, Smith-Pederson, Speer, Walker, Webb, Williams, Wissing

Instructors: Carwile, McCoy, Young

Mission of the College of Nursing

Northwestern State University Nursing improves the health of people in Louisiana and advances the mission of Northwestern State University through excellence in accessible undergraduate and graduate programs that are designed to assist students to achieve their professional goals by becoming responsible and contributing members of their chosen profession and society.

Degrees Offered Through the College of Nursing

Associate Degree in Nursing

Bachelor of Science in Nursing

Bachelor of Science in Radiologic Technology

Master of Science in Nursing

UNDERGRADUATE STUDIES IN NURSING

Accreditation

The Associate Degree in Nursing and the Bachelor of Science in Nursing programs at NSU are approved by the Louisiana State Board of Nursing and accredited by the National League for Nursing.

Comparative information regarding tuition, fees and length of nursing programs in this geographical area is available from the National League for Nursing, 350 Hudson Street, New York, NY 10014, telephone 1-800-669-9656.

Special Admission, Progression, Dismissal and Graduation Policies

Students who indicate the Bachelor of Science in Nursing or Associate Degree in Nursing program as a major must meet University admission requirements and comply with academic regulations and policies.

Transfer students: Only students who exited other universities and/or other nursing programs in good standing will be eligible for admission to the Bachelor of Science in Nursing or Associate Degree in Nursing Programs at Northwestern State University. Unusual circumstances will be evaluated on an individual basis.

Students who hold or have held licensure in any health care discipline and who have or have had disciplinary action against such licensure, and/or students who have or have had felony convictions, shall petition the Louisiana State Board of Nursing for review and action regarding their right to practice as students of nursing in Louisiana prior to entry into the first clinical course. Individuals who have been arrested, charged with, pled guilty or no contest to, or been sentenced for any criminal offense in any state must contact the Louisiana State Board of Nursing. The final order of the Louisiana State Board of Nursing will determine a student's admission and progression in this nursing program. The final order is to be included in the Petition to Enroll in Nursing Courses packet.

The following statements relating to admission, progression, and dismissal are consistent with policies of the University.

Specific Admission Requirements for the University

The prospective student must submit the following materials at least nine weeks before registration to the Office of Registrar, Northwestern State University, Natchitoches, LA 71497-0002:

1. An Application for Admission.
2. Official transcripts from all universities attended. Nursing requires an additional copy to be sent to the College of Nursing, 1800 Line Avenue, Shreveport, Louisiana 71101-4653.
3. All freshmen and transfer applicants with fewer than three credits in English composition and three credits in college mathematics beyond the developmental level must submit scores from the ACT assessment.

Enrollment in Nursing Courses

Admission to the University does not guarantee enrollment in nursing courses. Selection for enrollment in nursing courses is on a competitive basis for available spaces.

Students must meet the following minimum criteria to be considered for selection for enrollment in nursing courses:

1. Admission to the University and submission of all official transcripts to the Office of the Registrar on the Natchitoches campus.
2. A cumulative grade point average of 2.0 or above.
3. A minimum grade of C or above in all required zoology, microbiology, chemistry, and mathematics and nursing courses.
4. Completion of pre-requisite general academic courses toward the degree.
 - a. ADN Program—first semester of curriculum pattern.
 - b. BSN Program—first three semesters of curriculum pattern.
5. Minimum grade point average of 2.7 in general academic courses completed that are required for degree excluding electives.
6. Completion of required entrance examinations for nursing.
7. Completion of Petition to Enroll in Nursing Courses Packet which includes:
 - a. Application to nursing courses form.
 - b. Copy of scores on required entrance examinations for nursing.
 - c. Verification of licensure as a health care provider (if applicable).
 - d. Response to any requests of Waiver of Policy (if applicable).
 - e. Final order of the Louisiana State Board of Nursing (if applicable).
8. Submission of completed Petition to Enroll in Nursing Courses no later than the following deadlines:
 - a. Fall enrollment—May 31
 - b. Spring enrollment—September 15
9. Students must have completed all required courses and criteria by the last day of the NSU semester prior to semester of requested enrollment. Official transcripts of grades earned from other institutions must be submitted to the Office of the Registrar at NSU by the last day of the NSU semester preceding the date of requested enrollment.
10. A student who is not accepted for enrollment or placed on the waiting list must submit a new petition.
11. No Petition will be accepted after the designated deadline.

Selection for Enrollment in Nursing Courses

Admission to the University does not guarantee enrollment in nursing courses. Applicants who submit a completed Petition to Enroll in Nursing Courses Packet will be selected for admission on a competitive basis according to the following variables:

1. Grade point average in general academic courses required for the degree excluding elective hours.
2. Pattern of repeated pre-requisite general academic courses required for the degree.
3. Entrance examination scores.
4. Number of general academic credit hours required for the degree completed at Northwestern.
5. Completion of a baccalaureate or higher degree and/or licensure in the health care system.

Additional Information:

Students admitted to the first clinical nursing course must submit a completed Undergraduate Studies in Nursing Health Form within four weeks following registration. These forms will be mailed to applicants with notification of acceptance for enrollment in nursing courses. The physical examination and laboratory tests can be conducted no earlier than six weeks prior to registration. Repeat health forms are required every year thereafter.

Criteria for Progression in Undergraduate Studies in Nursing

1. Complete pre and co-requisites for courses outlined in the curriculum pattern.
2. Earn at least a 2.0 GPA on courses outlined in the curriculum pattern.
3. Earn a minimum grade of C in all required zoology, microbiology, chemistry, and mathematics courses.
4. Earn a minimum grade of C in all required nursing courses before progressing to the next required nursing course(s).
5. A nursing course may be repeated one time only. A maximum of two different nursing courses may be repeated, including those dropped with a grade of W.
6. A student repeating a nursing course in the Associate Degree in Nursing curriculum must concurrently enroll in the corequisite nursing course with the exception of Nursing 2550.

Criteria for Dismissal from Undergraduate Studies in Nursing

A student is subject to dismissal from Undergraduate Studies in Nursing for the following reasons:

1. Failure to achieve at least a C when repeating or enrolling for the second time in the same required nursing course.
2. Failure of more than two required nursing courses.
3. The need to repeat/re-enroll in more than two required nursing courses.
4. Participation in academic cheating and/or unauthorized possession of an examination.
5. Plagiarism.
6. Falsification of patient and/or agency records.
7. The unlawful and/or unauthorized use, abuse, possession, distribution, transportation, manufacture, concealment, consumption, promotion or sale of alcohol, illegal drugs, legal drugs obtained illegally, controlled substances, or designer drugs.
8. Illegal possession of weapons.
9. Theft.
10. Lack of professional compatibility or unsafe clinical practice as identified by the Undergraduate Studies in Nursing faculty.

Criteria for Graduation

Criteria for graduation from the Undergraduate Studies in Nursing are:

1. Complete the University requirements for graduation.
2. Complete the approved curriculum within a four year period after enrollment in the first clinical nursing course.
3. A minimum grade of "C" in all required zoology, microbiology, chemistry, mathematics, and nursing courses.
4. ADN students must complete at least 12 hours of general academic courses, excluding orientation and developmental education courses, at NSU.

Requests for Waiver of Policies

1. Forms for Request for Waiver of the Admission, Progression and Dismissal Policies should be submitted to:
Northwestern State University
Associate Director for Undergraduate Studies in Nursing
1800 Line Avenue
Shreveport, LA 71101-4653
A committee will review the request for waiver and make recommendations to the Associate Director. The student will receive written notification regarding the decision.
2. Grade Appeal or University Suspension Appeal-refer to University Academic Regulations and Policies in this catalog.

Forms pertaining to admission, progression and dismissal policies can be obtained from any of the following College of Nursing offices:

Northwestern State University
College of Nursing
Natchitoches, LA 71497-0002

Northwestern State University
College of Nursing
1800 Line Avenue
Shreveport, LA 71101-4653

Northwestern State University/CENLA
College of Nursing
1410 Neel Kirby Drive
Alexandria, LA 71306

Northwestern State University/Leesville
College of Nursing
3329 University Parkway
Leesville, Louisiana 71446

Transfer Credit in Nursing Courses

A transfer student may request credit for selective nursing courses based on the following criteria:

1. Successful completion of the course at another nursing program which is accredited by the National League for Nursing.
2. Review and approval of the course syllabus by the Associate Director for Undergraduate Studies in Nursing. A student who does not receive transfer credit may request to write a credit examination or enroll in the course. Transfer students must meet residency requirements.

Credit Examination in Nursing Courses

The College of Nursing faculty believe that there are many potential avenues for the acquisition of knowledge, attitudes and skills which are deemed appropriate for a generalist nurse practitioner. In keeping with this philosophy, the faculty believes that student experiences in a formal educational environment should build on the student's present level of achievement. Therefore, the faculty subscribe to the principles of validation of the candidate's competencies and the awarding of credit based upon satisfactory achievements on examination.

The candidate is allowed to matriculate in the curriculum pattern at a level appropriate to demonstrated achievement. All courses at and above the designated level of entry must be taken in residence.

1. The student must meet the requirements of the University to write credit examinations.
2. The student must meet with a faculty advisor to determine eligibility to write a credit examination and to secure information about preparation materials and testing dates.
3. The graduate of a practical nurse program may not write credit examinations in any nursing course until passing the NCLEX-PN.
4. The student requesting to write a credit examination must register for the specific credit examination in addition to other enrollment at registration.
5. Credit examinations for laboratory/clinical courses have a written and practical component. The student is required to achieve a passing score on the written component to be eligible to take the practical component. The student must achieve a passing score on both the written and practical components in order to achieve credit for the course.

Articulation Programs—for Licensed Practical Nurses (LPN)

The purpose of the articulation plans within the College of Nursing is to facilitate the upward progression of students in nursing curricula.

As validation of knowledge and skills, all prospective students must be actively involved in nursing practice and possess a current, unencumbered license to practice nursing (LPN or RN) in Louisiana. Applicants should schedule an appointment with a faculty advisor for planning.

LPN to ADN

1. The LPN who has successfully completed a state approved PN/VN program and has worked full time in nursing practice for one year must meet the same admission criteria as the generic student with the exception of completing Nursing 1050. Instead, this student must enroll in and successfully complete the Transition to Technical Nursing Course (Nursing 1060).
2. Upon successful completion of Nursing 1060, 2100, and 2110, 14 credit hours in nursing will be awarded. Credit will be awarded for the following nursing courses: 1100 - 4 credit hours; 1110 - 3 credit hours; 1500 - 4 credit hours; 1510 - 3 credit hours.

LPN to BSN

The LPN who has completed a state approved PN/VN program, has worked full time for one year in nursing and has submitted a completed skills validation checklist may be awarded up to four credit hours for Nursing 3080 within the BSN curriculum. These credit hours will be awarded upon successful completion of Nursing 3070, 3480 and 3490. Four credit hours will be awarded for Nursing 3080.

Bachelor of Science in Nursing (BSN)

Nursing Major Requirements: (54 semester hours) Students seeking a major in Nursing must complete 54 semester hours, within the 122 semester hour Nursing curriculum, which include NURA 3070, 3080, 3170, 3180, 3270, 3370, 3380, 3480, 3490, 4170, 4180, 4370, and 4380.

Curriculum for the Bachelor of Science in Nursing (410)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Chemistry 1070, 1080, 1091	7	English literature ¹	3
English 1010, 1020	6	Nutrition 1030	3
Health Education 1010	2	Microbiology 2060-2061	4
History ¹	3	Nursing 3070 ² , 3080 ³ , 3480 ³ , 3490 ³	15
Mathematics 1020, 1060	6	Psychology 2050	3
Orientation 1010	1	Zoology 1230-1231	4
Psychology 1010	3		32
Speech 1010	3		
Zoology 1220-1221	4		
	35		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Electives	6	Electives	15
Fine Arts 1040	3	Nursing 4170, 4180, 4370, 4380	18
Nursing 3170, 3180, 3270, 3370, 3380	21	Psychology 4400	3
	29	Social science ¹	3
			25

Total Semester Hours for Degree: 122

Footnotes:

¹ Must Meet University core requirements.

² Nursing 3100 is required for RN student in place of Nursing 3070.

³ Before enrolling in the clinical sequence of nursing course, students must meet criteria listed in the Special Admission, Progression, Dismissal and Graduation Policies and be accepted into the clinical sequence.

Associate Degree in Nursing
Curriculum for the Associate Degree in Nursing (420)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Chemistry 1070	3	Microbiology 2060-2061	4
English 1010, 1020	6	Nursing 1500, 1510, 2100, 2110	17
Mathematics 1020, 1060	6	Psychology 2050	3
Nursing 1050, 1100 ¹ , 1110 ¹	10	Sociology 1010	3
Orientation 1010	1		27
Zoology 1220-1221, 1230-1231	8		
	34		
THIRD YEAR	SEM. HRS.		
(One Semester)			
Nursing 2500, 2510, 2550	13		
	13		

Total Semester Hours for Degree: 74

Footnotes:

¹ Before enrolling in the clinical sequence of nursing courses, students must meet criteria listed in the Special Admission, Progression, Dismissal and Graduation Policies and be accepted into the clinical sequence.

Non-Traditional Studies—RN to BSN Program Degree

The College of Nursing at Northwestern State University offers an individualized plan for learning to assist registered nurses who are pursuing a Bachelor of Science Degree in Nursing. The BSN program is approved by the Louisiana State Board of Nursing and was the first program in Louisiana to receive National League for Nursing accreditation.

This individualized plan of learning has been developed to offer flexibility to meet the registered nurse students' needs.

This plan offers the opportunity for the student to complete upper division nursing courses after the completion of general academics. The student has the opportunity to earn credit without enrollment in 25 hours of nursing courses.

Credit in Nursing Courses

Credit in nursing courses is awarded upon satisfactory completion of the following requirements.

1. Graduates in NLN accredited programs will be awarded credit in Nursing 3080, 3490, 3170, 3180, 3370, 3380 following the satisfactory completion of Nursing 3100, 3480, 3270, 4170, and 4180.
2. Graduates of programs that are not NLN accredited will be required to successfully write comprehensive examinations in order to receive credit for Nursing 3080, 3490, 3170, 3180, 3370, and 3380. Study guides are available for preparation.

Admission Requirements

1. One year of practice as a registered nurse.
2. Current unencumbered license to practice nursing in Louisiana.
3. Current professional certification in CPR.
4. Evidence of Professional liability insurance.

Admission Procedure

1. Schedule an appointment with a faculty advisor for registered nurse students for initial planning. Students should bring a transcript and catalogue from their basic program for this appointment.
2. Submit a completed application of admission to the Office of the Registrar, Northwestern State University, Natchitoches, LA 71497-0002, before registration. Forms are available in the Nursing Office.
3. Submit official transcripts from all colleges attended to the Office of the Registrar, Northwestern State University, Natchitoches, LA 71497-0002.

Teledistance Learning Project

The RN to BSN Completion Program is also offered at selected locations through the TeleDistance Learning Program. This program allows the registered nurse students to complete theory and clinical degree requirements in their own community.

Graduate Programs

Master of Science in Nursing (546)

Graduate Studies and Research in Nursing offers a curriculum leading to the master of Science in Nursing degree. Learning opportunities are provided for baccalaureate nursing graduates to extend their knowledge and skills in clinical nursing and to develop a functional role in clinical nurse specialist, nursing education, nursing administration, or nurse practitioner in health care delivery systems. The clinical concentrations of study include: Adult Nursing, Critical Care Nursing of the Adult, Maternal-Child and Family Nursing, Mental Health/Psychiatric Nursing, Family Nurse Practitioner, Pediatric Nurse Practitioner, Women's Health Nurse Practitioner. Graduate education in nursing builds upon the base of baccalaureate education in nursing and upon experiential professional knowledge, attitudes, and skills, and is concerned with the educational preparation of an advanced practice nurse who can make significant contributions to the improvement of health care and to the advancement of nursing knowledge and practice.

The Master of Science in Nursing program is accredited by the National League for Nursing. Professional Nurse Traineeships are usually available as well as research/teaching graduate nursing assistantships. Information can be obtained from the College of Nursing.

Program Requirements

Undergraduate preparation for the major: the Bachelor of Science in Nursing from a National League for Nursing accredited program of nursing. Prerequisites for admission: an undergraduate course in basic statistics and physical assessment and evidence of Louisiana Registered Nurse license.

Graduate preparation: Completion of the Master of Science in Nursing requires a minimum of 39-42 semester credits. A thesis (or research problem for Nurse Practitioner students) and satisfactory ratings on a comprehensive examination are included in the requirements. Full or part-time study is available.

- A. Core (12 hours): Nursing 5010, 5100, 5120 and 5280 or Psychology 5750 for Mental Health/Psychiatric Nursing concentration.
- B. Area of Clinical Concentration (six - nine hours):
 1. Adult Nursing (Nursing 5040, 5050).
 2. Critical Care Nursing of the Adult (Nursing 5150, 5160).
 3. Family Nurse Practitioner (Nursing 5770, 5780, 5790).

4. Maternal Child and Family Nursing (Nursing 5310, 5320).
5. Mental Health-Psychiatric Nursing (Nursing 5500, 5510).
6. Pediatric Nurse Practitioner (Nursing 5850, 5860, 5870).
7. Women's Health Practitioner (Nursing 5330, 5340, 5350).
- C. Functional Role Concentrations: (9-18 semester hours)
 1. Administration (Nursing 5110, 5140, 5210).
 2. Clinical Nurse Specialist (Nursing 5700, 5710, 5400, 5170, 5190).
 3. Education (Nursing 5060, 5070, 5090).
 4. Nurse Practitioner (Nursing 5260, 5270, 5700, 5710, 5810, 5820, 5830, 5840, and 5360, 5800, or 5880).
- D. Support Courses (0-six hours)
To be selected from courses which support the student's clinical and/or functional role concentrations.
- E. Research Area (three-six hours)
 1. Thesis (Nursing 5980).
 2. Research Problems (Nursing 5950).

Bachelor of Science in Radiologic Technology

*** Accredited by the Joint Review Committee on Education in Radiologic Technology ***

Radiologic Technology Major Requirements: (52 semester hours) Students seeking a major in Radiologic Technology must complete 52 semester hours, within the 121 semester hour Radiologic Technology curriculum, which include Radiologic Technology 3400, 3410, 3420, 3430, 3510, 3520, 3530, 3600, 3610, 3620, 3700, 3710, 4700, 4800, 4810, 4820; Allied Health 1010, 1020, 4710, 4810.

Special Admission, Progression, Dismissal And Graduation Policies

The student who indicated the Bachelor of Science in Radiologic Technology as a major must meet University admission requirements and comply with academic regulations and policies.

The student who has been denied progression in courses or dismissed from another Radiologic Technology program will be evaluated on an individual basis.

The American Registry of Radiologic Technologists reserves the right to disapprove the writing of the National Registry to persons having been convicted of a felony or misdemeanor.

Individuals who have been arrested, charged with, pled guilty or no contest to, or been sentenced for any criminal offense in any state must contact the American Registry of Radiologic Technologists regarding this offense (AART-612-687-0048). The final order of the American Registry of Radiologic Technologists will determine the individual's eligibility for consideration for admission to the Radiology courses. The final order is to be included in the Petition to Enroll in Radiology Courses Packet.

American Registry of Radiologic Technologists

1255 Northland Drive

St. Paul, Minnesota 55120-1155

The following statements relating to admission, progression, dismissal and graduation are consistent with policies of the University.

Special Admission Requirements for the University

The prospective student must submit the following materials to arrive at least nine weeks before registration to the Office of the Registrar, Northwestern State University, Natchitoches, Louisiana 71497-0002.

1. An Application for Admission
2. Official transcripts from all universities attended. Radiology requires an additional copy to be sent to the College Of Nursing, Attn: Radiology, 1800 Line Avenue, Shreveport, Louisiana 71101-4653.
3. All freshmen and transfer applicants with fewer than three credits in English composition and three credits in college mathematics beyond the developmental level must submit scores from the ACT assessment.

Enrollment in Radiology Courses

Admission to the University does not guarantee enrollment in Radiology courses. Selection for enrollment in Radiology courses is on a competitive basis for available spaces.

Students must meet the following minimum criteria to be considered for selection for enrollment in Radiology courses:

1. Admission to the University and submission of all official transcripts to the Office of the Registrar on the Natchitoches campus.
2. A cumulative grade point average of 2.0 or above.
3. A minimum grade of "C" in all required zoology, microbiology, chemistry, mathematics, and health science courses.
4. Completion of pre-requisite general academic courses in first three semesters toward the degree.
5. Minimum grade point average of 2.7 in general academic courses completed that are required for degree excluding electives.
6. Completion of required entrance examinations for Radiology.
7. Completion of Petition to Enroll in Radiology Courses which includes:
 - a. Application to Radiology courses form.
 - b. Copy of scores on required entrance examinations for Radiology.
 - c. Verification of licensure as a health care provider (if applicable).
 - d. Response to any Requests of Waiver of Policy (if applicable).
 - e. Final Order of American Registry or Radiologic Technologists (if applicable).
8. Submission of completed Petition to Enroll in Radiology Courses not later than the following deadlines:
 - a. Fall enrollment - May 31
9. Students must have completed all required courses and criteria by the last day of the Northwestern State University semester of requested enrollment. Official transcripts of grades earned from other institutions must be submitted to the Office of the Registrar at Northwestern State University by the last day of the NSU semester preceding the date of requested enrollment.
10. A Petition is valid for one semester only.
11. No Petition will be accepted after the designated deadline.

Selection for Enrollment in Radiology Courses

Admission to the University does not guarantee enrollment in Radiology courses. Applicants who submit a completed Petition to Enroll in Radiology Courses will be selected for admission on a competitive basis according to the following variables:

1. Grade point average - general academic courses required for the degree excluding elective hours.
2. Pattern of repeated pre-requisite general academic courses required for the degree.
3. Entrance examination scores.
4. Number of general academic credit hours required for the degree completed at Northwestern.
5. Completion of a baccalaureate of higher degree and/or licensure in the health care system.

Students admitted to the first clinical Radiology course must submit a completed Undergraduate Studies in Radiology Health Form within four weeks following registration. These forms will be mailed to applicants with notification of acceptance for enrollment in Radiology courses. The physical examination and laboratory tests can be conducted no earlier than six weeks prior to registration. Repeat health forms are required every year thereafter.

Criteria for Progression in Undergraduate Studies in Radiology

1. Complete prerequisites and co-requisites for courses outlined in the curriculum pattern.
2. Earn at least a 2.0 GPA on courses outlined in the curriculum pattern.
3. Earn a minimum grade of "C" in all required zoology, microbiology, chemistry, and mathematics courses.
4. Earn a minimum grade of "C" in all required radiology/health science courses before progressing to the next required radiology course(s).
5. A radiology or health science course may be repeated one time only. A maximum of two different radiology/health science courses may be repeated, including those dropped with a grade of "W".

Criteria for Dismissal from Undergraduate Studies in Radiology

A student is subject to dismissal from Undergraduate Studies in Radiology for the following reasons:

1. Failure to achieve at least a "C" when repeating or enrolling for the second time in the same required radiology or health science course.
2. Failure of more than two required radiology or health science courses.
3. The need to repeat/re-enroll in more than two required radiology or health science courses.
4. Participation in academic cheating and/or unauthorized possession of an examination.
5. Plagiarism.
6. Falsification of patient and/or agency records.
7. The unlawful and/or unauthorized use, abuse, possession, distribution, transportation, manufacture, concealment, consumption, promotion or sale of alcohol, illegal drugs, legal drugs obtained illegally, controlled substances, or designer drugs.
8. Illegal possession of weapons.
9. Theft.
10. Lack of professional compatibility or unsafe clinical practice as identified by the Undergraduate Studies in Radiology faculty.

Criteria for Graduation

Criteria for graduation from Undergraduate Studies in Radiology are:

1. Complete the University requirements for graduation.
2. Complete the approved curriculum within a four year period after enrollment in the first clinical radiology course.
3. A minimum grade of "C" in all required zoology, microbiology, chemistry, mathematics, radiology and health science courses.

Requests for Waiver of Policies

1. Forms for Waiver of the Admission, Progression, Dismissal and Graduation Policies should be submitted to:
Northwestern State University
Associate Director for Radiology
1800 Line Avenue
Shreveport, Louisiana 71101-4653
A committee will review the request for waiver and make recommendations to the Associate Director. The student will receive written notification regarding the decision.
2. Grade Appeal or University Suspension Appeal-refer to University Academic Regulations and Policies in the General Catalog.

Forms pertaining to admission, progression, dismissal, and graduation policies can be obtained from any of the following College of Nursing Offices:

Northwestern State University
College of Nursing/Radiology
Natchitoches, Louisiana 71497-0002

Northwestern State University
College of Nursing/Radiology
1800 Line Avenue
Shreveport, Louisiana 71101-4653

Criteria for Transfer Students in Radiologic Technology Courses

Students transferring credit from accredited radiologic technology programs must meet the following criteria:

1. Students must meet all Northwestern State University criteria for admission to the University.
2. Students making application to the program must provide a copy of their official transcript showing all credits earned in radiologic technology, and a copy of their clinical performance evaluations to the Director's office. Acceptance into the clinical program is contingent on past clinical performance records and not acceptance to Northwestern State University.
3. Students will be admitted to the Radiologic Technology program on a conditional status for one semester and must complete all assigned competencies (evaluation) in this period.

Curriculum for the Bachelor of Science in Radiologic Technology (615)

FIRST YEAR		SEM. HRS.	SECOND YEAR		SEM. HRS.
Allied Health 1010, 1020.....		3	Computer information systems		3
Chemistry 1070, 1080, 1091.....		7	English literature ¹		3
English 1010, 1020		6	Nutrition 1030.....		3
Health Education 1010.....		2	Microbiology 2060-2061		4
History ¹		3	Radiologic Technology 3400, 3410, 3420, 3430		11
Mathematics 1020, 1060.....		6	Social science ¹		3
Orientation 1010		1	Speech 1010.....		3
Psychology 1010.....		3	Zoology 1230-1231.....		4
Zoology 1220-1221		4			34
		35			
THIRD YEAR		SEM. HRS.	FOURTH YEAR		SEM. HRS.
(Clinical)			(Clinical)		
Fine Arts 1040.....		3	Allied Health 4710, 4810.....		6
Psychology 4400.....		3	Elective.....		3
Radiologic Technology 3510, 3520, 3530, 3600, 3610, 3620.....		24	Radiologic Technology 3700, 3710, 4700, 4800, 4810, 4820.....		17
		30			26

Total Semester Hours for Degree: 125

Footnotes:

¹ Refer to University core requirements.

COLLEGE OF SCIENCE AND TECHNOLOGY

Room 401R, Kyser Hall
318-357-5131

Dean: Austin Temple, *Professor*

Mission of the College of Science and Technology

The mission of the College of Science and Technology parallels the mission of the University. The College of Science and Technology is committed to maintaining quality undergraduate and graduate curricula. Course offerings in the sciences and technologies are designed to satisfy the requirements of the offered curricula, of the core curriculum, and of special requirements from other curricula and programs.

Excellence in teaching is the lofty goal of each faculty member in the College of Science and Technology. Research and scholarly activities are encouraged as a means of enhancing teaching and keeping curricula and course offerings fresh and current. Faculty recognize the importance of the interaction between themselves and the students as a vital link in the learning process.

The sphere of influence of the College of Science and Technology reaches far beyond the University. Faculty provide consultation services to regional industry, participate in community service activities, and generate research that will benefit economic development and quality of life in the region.

Departments Within the College of Science and Technology

Department of Biological Science
Department of Chemistry and Physics
Department of Family and Consumer Science
Department of Health and Human Performance
Department of Industrial Technology
Department of Mathematics
Department of Military Science

Degrees Offered Through the College of Science and Technology

Associate Degree in Electronic Technology
Associate Degree in Veterinary Technology

Bachelor of Arts in Early Childhood Education
Bachelor of Science in Physical Education
Bachelor of Science in Biology
Bachelor of Science in Chemistry
Bachelor of Science in Electronic Engineering Technology
Bachelor of Science in General Home Economics
Bachelor of Science in Hospitality Management and Tourism
Bachelor of Science in Industrial Technology
Bachelor of Science in Mathematics
Bachelor of Science in Medical Technology
Bachelor of Science in Physics

Master of Education (w/ concentration in early childhood education)

Master of Education in Physical Education

Master of Education (w/concentration in Health Promotion and in Sports Administration)

Pre-Professional Programs

Pre-Medicine/Dentistry
Pre-Occupational Therapy
Pre-Optometry
Pre-Pharmacy
Pre-Respiratory Therapy
Pre-Veterinary Medicine

Preparatory Programs

Pre-Agriculture
Pre-Engineering
Pre-Forestry

AVIATION SCIENCE

All applicants for admission to the Aviation Science curriculum must meet the requirements for admission to NSU. To be admitted to the curriculum, the student must pass a second-class medical examination. The expense of the flight labs in Aviation Science are in addition to the regular University tuition fees. The flight fees will vary in accordance with solo, dual flight, type of aircraft, and operational costs.

In conjunction with the approval from the Federal Aviation Administration, the University provides the flight training to qualify for the following certificates and ratings: Private Pilot Certificate; Commercial Pilot Certificate; Instrument Rating; Flight Instructor Certificate; Instrument Flight Instructor Rating; Multi-Engine Rating; Multi-Engine Flight Instructor Rating; Airline Transport Pilot Certificate.

Requirements for the Bachelor of General Studies degree with concentration in Aviation Science are found in the General Studies section of this catalog.

For a minor: (21 semester hours) AVIS 1050, 1060, 2050, 3000, 3040, 1101, and 2101.

DEPARTMENT OF BIOLOGICAL SCIENCES

Coordinator: Dick T. Stalling, Professor

Professors: A. Allen, J. Allen, Burns, Lin, K. Williams

Associate Professors: Misuraca, Pace, Viers, B. Woodard

Assistant Professors: Bates, Land, Sticker

Instructor: Kruse

Degrees Offered Through the Department of Biological Sciences:

Bachelor of Science in Biology

Bachelor of Science in Medical Technology

Associate Degree in Veterinary Technology

Bachelor of Science in Biology

Biology Core Requirements:

Genetics: Biology 3270.

Physiology: Biology 4000; Zoology 4210-4211

Morphology and development: Botany 2100-2101, Zoology 2050-2051, 2060-2061, 3170-3171, 4050-4051.

Environmental: Biology 4400-4401; Botany 2140-2141; Zoology 3140-3141, 3340-3361, 4040-4041, 4170-4171, 4180-4181.

Biological Science Major Requirements: (40 semester hours) Students seeking a major in Biological Science must complete 40 semester hours, within the 126 semester hour Biological Science curriculum, which include Biology 1010-1011, 1020-1021, 3060, 3270, 4000, 4400-4401; Botany 2100-2101; Microbiology 2060-2061; Zoology 2050-2051, 2060-2061, 4210-4211.

Biology Minor Requirements: (19 semester hours) Biology 1010-1011, 1020-1021; and eleven hours from at least three of the biology core areas: biology, botany, zoology.

Microbiology Minor Requirements: (28 semester hours) Chemistry 2110-2111, 2120-2121; Microbiology 4120-4121, 4190-4191; 12 semester hours of microbiology electives to include eight semester hours from Microbiology 4030-4041, 4140-4141, 4210-4211, 4270, or Veterinary Technology 2100-2101

Wildlife Management Minor Requirements: (24 semester hours) Biology 4900; Botany 2140-2141; Plant & Soil Science; 2100-2101; Zoology 2290, 3220-3221, 4960; three semester hours selected from Forestry 1110, 2150-2151; three semester hours selected from Zoology 4170-4171, 3340, 4180-4181, or 4040-4041.

Curriculum for Bachelor of Science in Biology (618)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Biology 1010-1011, 1020-1021	8	Botany 2100-2101	3
English 1010, 1020	6	Chemistry 1030, 1040, 1051	8
Fine Arts 1040	3	English or speech ¹	3
Health and personal fitness ¹	2	Health and personal fitness ¹	2
Mathematics 1100 or 1020 and 1090	6	Mathematics 2010	3
Orientation 1010	1	Microbiology 2060-2061	4
Psychology 1010	3	Zoology 2050-2051, 2060-2061	8
Social science ¹	3		31
	32		

THIRD YEAR	SEM. HRS.
Biology 3060, 3270.....	6
Chemistry 3010-3011.....	5
Electives ^{2,3}	12
Physics 2030-2031, 2040-2041.....	8
	<u>31</u>

FOURTH YEAR	SEM. HRS.
← Biology 4000, 4400-4401.....	7
Electives ¹	12
English literature ¹	3
History ¹	3
Social science.....	3
Zoology 4210-4211.....	4
	<u>32</u>

Total Semester Hours for Degree: 126

Footnotes:

¹ Refer to University core requirements.

² Pre-med and pre-dental students take Chemistry 3020-3021.

³ Electives must be chosen so as to complete a minor as defined by the department concerned or a minor in microbiology or wildlife management.

Bachelor of Science in Medical Technology

Curriculum for Bachelor of Science in Medical Technology (Certified) (614)

FIRST YEAR	SEM. HRS.
Biology 1010-1011, 1020-1021.....	8
Chemistry 1030, 1040, 1051.....	8
English 1010, 1020.....	6
Health and personal fitness ¹	4
Mathematics 1020, 1090.....	6
Orientation 1010.....	1
Psychology 1010.....	3
	<u>36</u>

SECOND YEAR	SEM. HRS.
Chemistry (organic).....	4
English or speech ¹	3
History ¹	3
English literature ¹	3
Microbiology 2060-2061.....	4
Physics 2030-2031, 2040, 2041.....	8
Social science ¹	3
Zoology 1220-1221 or 2060-2061, 1230-1231 or 4210-4211.....	8
	<u>36</u>

THIRD YEAR	SEM. HRS.
Chemistry 2040-2041, 2110-2111, 2120-2121.....	12
Fine Arts 1040.....	3
Medical Technology 2010-2011.....	4
Microbiology 4120-4121, 4190-4191, 4130-4131 or Zoology 4130-4131.....	12
Social science ¹	3
	<u>34</u>

FOURTH YEAR (Clinical) ²	SEM. HRS.
Medical Technology 4040, 4050, 4060, 4070, 4080, 4090, 4100.....	30
	<u>30</u>

Total Semester Hours for Degree: 136

Footnotes:

¹ Refer to University core requirements.

² Students complete their senior year (12 months) at one of the NSU clinical hospital affiliates, earning 30 semester hours. All affiliates are approved by the Committee on Allied Health Education and Accreditation.

Pre-Agriculture

Curriculum for Pre-Agriculture (S18E)

FIRST YEAR	SEM. HRS.
Agriculture 1040, 1050.....	6
Biology 1010-1011, 1020-1021.....	8
Chemistry 1030, 1040, 1051.....	8
English 1010, 1020.....	6
Mathematics 1020, 1060.....	6
Orientation 1010.....	1
	<u>35</u>

SECOND YEAR	SEM. HRS.
Accounting 2000.....	3
Agricultural science electives ¹	18
Computer 1020.....	3
Economics 2010.....	3
Fine Arts 1040.....	3
History 2010 or 2020.....	3
Social science.....	3
	<u>36</u>

¹ To be selected with approval of advisor.

Pre-Forestry
Curriculum for Pre-Forestry (S18G)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Biology 1010-1011.....	4	Anthropology 2010	3
Botany 2100-2101.....	3	Botany 2140-2141	3
Economics	3	Chemistry 1030, 1040, 1051.....	8
English 1010, 1020	6	Environment 2000.....	3
Forestry 1110.....	3	Forestry 2150-2151	3
Geography or history	3	Industrial Technology 1800	3
Mathematics 1020, 1090.....	6	Plant and Soil Science 2100-2101	4
Orientation 1010	1	Political Science 2010.....	3
Speech 1010	3	Zoology 2290.....	3
	32		33

Pre-Medicine or Pre-Dentistry

Students preparing for admission to medical school can major in biology or chemistry and minor in microbiology.
The electives are to be used to complete the requirements of the medical school(s) to which the student plans to apply.

Pre-Occupational Therapy
Curriculum for Pre-Occupational Therapy¹ (S18K)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Chemistry 1070.....	3	Biology 1010.....	3
Computer Information Systems 1800	3	Elective.....	3
English 1010, 1020	6	English literature.....	3
Fine Arts 1040.....	3	Health Education 1010.....	2
Mathematics 1020, 1090.....	6	History ³	3
Psychology 1010, 2050.....	6	Humanities ²	3
Zoology 1220-1221	4	Physics 2030-2031	4
	31	Psychology 2450, 3060-3061.....	7
		Sociology 1010	3
		Zoology 1230-1231	4
			35

Footnotes:
¹ This curriculum meets the requirements for entrance into the Occupational Therapy Program of Louisiana State University School of allied Health professions.
² Humanities: communications, English history, language, philosophy, speech, journalism.
³ Limited to University core.

Pre-Optometry
Curriculum for Pre-Optometry¹ (S18H)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Biology 1010-1011, 1020-1021	8	Chemistry 1030, 1040, 1051.....	8
Electives ²	6	Electives ²	11
English 1010, 1020	6	English or speech.....	3
History.....	3	Physics 2030-2031, 2040-2041.....	8
Mathematics 1020, 1090.....	6	Political science.....	3
Orientation 1010	1		33
Psychology	3		
	33		

Footnotes:
¹ The above curriculum is based upon current requirements for admission to schools of optometry in the U.S. as published by the Council on Education and Professional Guidance of the American Optometric Association. Since entrance requirements for the various schools and colleges of optometry vary slightly the student should contact the school he or she intends to enter regarding specific requirements.
² For electives or for a third preprofessional year, the following are strongly recommended: animal anatomy and development, genetics, human physiology, microbiology, sociology and organic chemistry.

Pre-Pharmacy Curriculum for Pre-Pharmacy¹ (S18I)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Biology 1010-1011, 1020-1021	8	Accounting 2000	3
Chemistry 1030, 1040, 1051	8	Chemistry 3010-3011, 3020-3021	10
Electives ²	3	Economics 2000	3
English 1010, 1020	6	Electives ²	13
Health Education 1010	2	Mathematics 2010	3
Mathematics 1020, 1090	6		32
Orientation 1010	1		
	34		
SUMMER	SEM. HRS.		
Physics 2030-2031, 2040-2041	8		

Footnotes:

¹ This curriculum meets the requirements for entrance into the Northeast Louisiana School of Pharmacy.

² Nine hours of credit selected from history or psychology; seven hours selected from art, English, foreign languages, music, philosophy, or speech.

Pre-Respiratory Therapy Curriculum for Pre-Respiratory Therapy¹ (S18J)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Biology 1010-1011, 1020-1021	8	Electives	3
Chemistry 1030, 1040, 1051	8	English	6
English 1010, 1020	6	Microbiology 2060-2061	4
Mathematics 1020, 1090	6	Physics 2030-2031	4
Sociology 1010	3	Political science	3
	31	Psychology 1010	3
		Zoology 2060-2061	4
			27

Footnotes:

¹ The pre-respiratory therapy curriculum meets the requirements for entrance into the Louisiana State University Respiratory Therapy program. The curriculum may be adjusted to meet the requirements of other professional schools.

Pre-Veterinary Medicine Curriculum for Pre-Veterinary Medicine¹ (S18C)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Biology 1010-1011, 1020-1021	8	Chemistry 1080, 3010-3011	8
Chemistry 1030, 1040, 1051	8	Electives ¹	13
Elective ¹	3	Microbiology 2060-2061	4
English 1010, 1020	6	Physics 2030-2031, 2040-2041	8
Mathematics 1020, 1090	6	Veterinary Technology 1020	2
Orientation 1010	1		35
Speech 1010	3		
	35		

Footnotes:

¹ This curriculum comprises those courses required by the School of Veterinary Medicine at Louisiana State University. Students interested in applying to veterinary school may choose courses from elective requirements that will apply towards a terminal undergraduate degree (i.e., bachelor's degree in biology, chemistry, physics, or mathematics; associate degree in veterinary technology).

NOTE: All correspondence involving veterinary medical education and requests for applications for admission to the school should be addressed to the Dean, School of Veterinary Medicine, Louisiana State University, Baton Rouge, Louisiana 70803 or contact the Pre-Veterinary advisor at NSU. Formal application and all required credentials must be submitted by November 1 prior to the year admission is sought.

Associate Degree in Veterinary Technology
Curriculum for Associate Degree in Veterinary Technology¹ (725)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Agriculture 1040	3	Chemistry 1070, 1080, 1091 or 1030, 1040, 1051	7-8
Biology 1010-1011, 1020-1021	8	Microbiology 2060-2061	4
English 1010, 1020	6	Veterinary Technology 2090-2091, 2100-2101 2190-2191, 2200-2201, 2600, 2700-2701, 3010	24
Mathematics 1020, 1060	6		35 - 36
Orientation 1010	1		
Psychology 1010	3		
Veterinary Technology 1010-1011, 1020 ² , 1030-1031, 2060	9		
	36		

THIRD YEAR	SEM. HRS.
Veterinary Technology 2900 ³	12

Total Semester Hours for Degree: 83 - 84

Footnotes:

- ¹ Students majoring in Veterinary Technology must have completed Veterinary Technology 2190- 2191, 2200-2201 within one calendar year prior to registering for Veterinary Technology 2900 (Internship).
² Veterinary technology courses are offered only once each calendar year.
³ All other courses required for a degree in Veterinary Technology must have been successfully completed prior to registration in Veterinary Technology 2900.

NOTE: All students majoring in Veterinary Technology will require a grade of C or better in each course entitled Veterinary Technology.

Physical Therapy

To make application to the Physical Therapy program at the Louisiana State University School of Allied Health, students must hold a bachelor's degree, meet the minimum course requirements set forth by the Louisiana State University School of Physical Therapy, and have a minimum of 50 hours of observation. Students may select any major, but must complete 39 semester hours of prescribed course work in the biological and physical sciences to qualify for consideration.

Students completing requirements for a major in biology meet all of the requirements in the sciences.

DEPARTMENT OF CHEMISTRY AND PHYSICS

Coordinator: Wayne Hyde, *Professor*
Professors: Graham, Keller
Associate Professors: Knowlton, G. White
Assistant Professors: Francis, L. Roach, Rudd, Shoop
Instructors: Hawkins, Lane, Ponder

Degrees Offered Through the Department of Chemistry and Physics:
Bachelor of Science in Chemistry
Bachelor of Science in Physics

Bachelor of Science in Chemistry

Chemistry Major Requirements: (54 - 67 semester hours) Students seeking a major in Chemistry must complete 54 - 67 semester hours, within the 124 - 137 semester hour Chemistry curriculum, which include a 36 semester hour Chemistry core and a 16 - 29 semester hour concentration.

Core: (38 semester hours) Chemistry 1010, 1030, 1040, 1051, 2110-2111, 2140-2141, 3010-3011, 3020-3021, 3210-3211, 3220-3221, two semester hours of Chemistry 4900
Concentration: (16-27 semester hours as defined below)

Chemistry Minor Requirements: (20 semester hours) Chemistry 1030, 1040-1051, 2110-2111, 3010-3011, and three semester hours of chemistry electives

Available Concentrations:

Biochemistry: (21-25 semester hours) Chemistry 4040-4041, 4050; a minor in biology or microbiology (students completing a biology minor must also complete Microbiology 2060-2061).

Computer Science: (21 semester hours) Computer Science 1060, 2010, 2060, 2070, 3050; Mathematics 3450 or 3150 or Computer Science 2080; a 3000 or 4000 level three semester hour computer science elective.

Professional: (16 semester hours) Chemistry 4140, 4160-4161, 4980; Mathematics 3130; three semester hours of 3000 or 4000 level electives in chemistry, physics or mathematics; —Physics 2510-2511 and 2520-2521 are also recommended. (Students who complete this concentration will be certified as chemists by the American Chemical Society upon graduation.)

Technology and Management: (27 semester hours) Economics 2000, 2010; Accounting 2000, 2010; Business Administration 2120, 3120; Management 3220; Marketing 3230; a 4000 level three semester hour chemistry elective.

Curriculum for Bachelor of Science in Chemistry (634)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Chemistry 1010, 1030, 1040, 1051	9	Chemistry 2110-2111, 2140-2141	7
Elective ³	3	Electives ³	3
English 1010, 1020	6	English literature ¹	3
History ¹	3	English or speech ¹	3
Mathematics 1090 ² , 2100	8	Mathematics 2110	5
Orientation 1010	1	Physics 2030-2031, 2040-2041	8
Social science ¹	3		29
	33		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Biology 1010-1011, 1020-1021	8	Chemistry 4900	2
Chemistry 3010-3011, 3020-3021, 3210-3211, 3220-3221	18	Electives ³	21
Electives ³	3	Health and personal fitness ¹	4
Fine Arts 1040	3	Social science ¹	3
	32		30

Total Semester Hours for Degree: 124 - 137

Footnotes:

¹ Must meet University core requirements.

² Students who are deficient in algebra should take Mathematics 1020. Credit in this course adds three semester hours to degree requirements.

³ Chosen with advisor's approval from courses in the biological and physical sciences, mathematics, microbiology, German, business and also to complete an approved concentration.

Bachelor of Science In Physics

Physics Major Requirements: (38 semester hours) Students seeking a major in Physics must complete 38 semester hours, within the 124 semester hour Physics curriculum, which include Physics 1010, 2510-2511, 2520-2521, 3291, 3710, 4100, 4510, 4620, 4830, two semester hours of 4900; four semester hours of physics electives.

Physics Minor Requirements: (22 semester hours) Physics 2510-2511, 2520-2521; 12 semester hours of physics electives.

Available Concentrations:

Space Science Concentration: (12 semester hours) Physics 1120, 3120; two semester hours of physics electives.

Curriculum for Bachelor of Science in Physics (633)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Chemistry 1030, 1040, 1051.....	8	Electives.....	9
English 1010, 1020.....	6	English literature ¹	3
Fine Arts 1040.....	3	English or speech ¹	3
Health and personal fitness ¹	4	History ¹	3
Mathematics 1090, 2100.....	8	Mathematics 2110.....	5
Orientation 1010.....	1	Physics 2510-2511, 2520-2521 ²	10
Physics 1010.....	1		33
Social science ¹	3		
	34		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Electives ³	6	Electives ³	12
Biological science ¹	3	Physics 4510, 4620, 4830, 4900 (two semester hours.).....	14
Mathematics 3130, 3160.....	6	Physics electives.....	4
Physics 3291, 3710, 4100.....	9		30
Social science ¹	3		
	27		

Total Semester Hours for Degree: 124

Footnotes:

¹ Must meet University core requirements.² Physics 2030-2031, 2040-2041 may be taken if the student has not satisfactorily completed one semester of calculus. This adds two hours of physics electives to degree requirements.³ Chosen with advisor's approval.

DEPARTMENT OF FAMILY & CONSUMER SCIENCES

Department Head: Patricia N. Pierson, Assistant Professor

Professors: Crossno, Decker, Hunt

Assistant Professors: Benedict, Howell-Maroney, Woods

Instructors: C. Jones, McBride

The field of Family & Consumer Sciences uses an integrative approach to the relationships among individuals, families, and communities, and the environments in which they function. The Department of Family & Consumer Sciences at Northwestern State University of Louisiana is dedicated to the overall goal of empowering individuals, strengthening families, and enabling communities; thereby improving quality of life. The Unit strives to prepare individuals for careers and professions by building upon the arts, sciences, and humanities. The Unit also builds upon the historical and philosophical foundations of the profession, incorporates technology and a global perspective into its curricula, and disseminates knowledge across subject and functional areas.

Operating within the broader mission of the University, the Department of Family & Consumer Sciences enables the students to prepare for productive personal and professional lives through instruction, laboratory, field experiences, and membership in professional organizations. The unit has created new programs to prepare graduates entering a rapidly changing world. This student training reinforces the university's commitment to the economic, social, and cultural development and diversification of the state and the region. Additionally, the department has made selected degree programs and courses available to students beyond the traditional college population of Central Louisiana at a variety of off-campus locations, again staying consistent with the university's mission statement. Quality instruction in a student-centered environment, research and development of programs and faculty, and providing service through commitment to the economic, social, and cultural development of the state and region are three broad areas of focus.

Degrees Offered Through the Department of Family and Consumer Sciences:

Bachelor of Science in General Home Economics (see associated concentrations)

Bachelor of Arts in Early Childhood Education

Bachelor of Science in Hospitality Management and Tourism (see associated concentrations)

Masters of Education: Early Childhood Education

Bachelor of Science in General Home Economics

General Home Economics Major Requirements : (59-63 semester hours) Students seeking a major in General Home Economics must complete 59-63 semester hours, within the 125-129 semester hour General Home Economics curriculum, which include a 32-33 semester hour General Home Economics core and a 27-30 semester hour concentration.

Core: (32-33 semester hours) Family and Consumer Science 1070, 1120, 4010; three hours from Family and Consumer Science 3030 or 4160, 4500; Nutrition 1020, or 1030 or 1050. In addition, 12 semester hours from family and consumer science core groups.

Concentration: (27-30 semester hours as defined below)

Special requirements: Completion of an approved minor of a minimum of 18 semester hours.

General Home Economics Minor Requirements: (20 semester hours) Undergraduate students seeking a minor in General Home Economics must complete 20 semester hours in one of the following areas:

Food and Nutrition: Family and Consumer Science 2010, 3050, 3070, Hospitality Management and Tourism 3020, Nutrition 1030; four semester hours from Family and Consumer Science 1041, 1120, 2050, 4010, 4080, 4260, or Merchandising 3200.

Housing and Interiors: Family and Consumer Science 3090, 3100; Art 1010, 1060; Industrial Technology 1400; five semester hours from Art 1230, 2050; Family and Consumer Science 1120, 4010, Merchandising 3200 or Industrial Technology 3460.

Clothing and Textiles: Family and Consumer Science 1010, 2030, 2060, 4050; eight semester hours from Family and Consumer Science 1120, 3100, 4010, 4080, Merchandising 2220, 3200, or 4220.

Child Development and Family Relations: Family and Consumer Science 4160; Early Childhood Education 2000-2001, 2070, 2090, 3000; four semester hours from Family and Consumer Science 1041, 3020; Early Childhood Education 3010-3011, or Nutrition 1050.

Available Concentrations:

Fashion Merchandising: (27 semester hours) Family and Consumer Science 1010, 2030, 2060, 3100, 4050, Merchandising 2210, 2220, 3200, 4220.

Housing & Interiors: (30 semester hours) Family and Consumer Science 2030, 3090, 3100, Merchandising 2210, 3200; Art 1060, 1230, 2050; Industrial Technology 1400, 3460.

Consumer Services: (27 semester hours) Family and Consumer Science 1010 or 2060; 2010, 2030, 3090, 3100, 4080; Merchandising 2210; Family and Consumer Science 3050 or Hospitality Management and Tourism 3020; Journalism 3060.

Curriculum for Bachelor of Science in General Home Economics (139)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Art 1010	3	Electives ⁴	6
English 1010, 1020	6	English literature ¹	3
Family and Consumer Science 1070, 1120	2	Computer 1020	3
Family and Consumer Science concentration area ²	3	Family and Consumer Science concentration area ²	9
Family and Consumer Science core ³	3	Family and Consumer Science core ³	6
Fine Arts 1040	3	Health and personal fitness ¹	2
Mathematics ¹	6	Science ¹	6
Nutrition 1020 or 1030 or 1050	2-3		35
Orientation 1010	1		
Speech 1010	3		
	32-33		

THIRD YEAR	SEM. HRS.
Electives ⁴	9
Family and Consumer Science 3030 or 4160	3
Family and Consumer Science concentration area ²	6
Family and Consumer Science core ³	3
History ¹	3
Science ¹	3
Social science ¹	6
	33

Total Semester Hours for Degree: 125-129

Footnotes:

- ¹ Selected to meet University core requirements.
- ² Chosen from family and consumer science concentration area.
- ³ Chosen from family and consumer science core groups:
- Life Span/Human Development: Early Childhood Education 2000/2001, Early Childhood Education 3010/3011, Family and Consumer Science 3020, 4160.
- Foods/Resource Management: Family and Consumer Science 2010, 3030, 3050, 4080, Hospitality Management and Tourism 3020.
- Apparel/Textiles/Environments: Family and Consumer Science 1010, 2030, 2060, 3090, 3100, 4050, Merchandising 2210, 3200, 4220.
- ⁴ Electives must be chosen so as to complete an approved minor as defined by department concerned.

Vocational Home Economics

(See College of Education, Secondary Education)

Bachelor of Arts in Early Childhood Education

Early Childhood Education Major Requirements: (34 semester hours) Students seeking a major in Early Childhood Education must complete 34 semester hours, within the 133 semester hour Early Childhood Education curriculum, which include Education 2020, 3110-3111, 4040; Educational Psychology 3000, Special Education 3460; Reading 3030, 3060, 4610.

Curriculum for Bachelor of Arts in Early Childhood Education¹ (313)

FIRST YEAR	SEM. HRS.
Early Childhood Education 2000-2001	4
English 1010, 1020	6
Family and Consumer Science 1041	1
Family and Consumer Science 1070, 2060	4
Fine Arts 1040	3
Health Education 1010	2
Mathematics 1020, 1060	6
Nutrition 1050	2
Orientation 1010	1
Science 1010, 1020	6
	35

FOURTH YEAR	SEM. HRS.
Electives ⁴	3
Family and Consumer Science 4010, 4500	13
Family and Consumer Science concentration area ²	9-12
	25-28

SECOND YEAR	SEM. HRS.
Art 2040	3
Early Childhood Education 2090, 3000	6
Education 2020	3
Educational Psychology 3000	3
English literature ²	3
History 2010, 2020	6
Music 2100	3
Science ²	6
Speech 1010	3
	36

THIRD YEAR	SEM. HRS.
Early Childhood Education 3010-3011	3
Education 3110-3111	4
Elective	3
Family and Consumer Science 3020, 4080, 4160	8
Geography 2010	3
Health Education 3160	2
Library Education 4160	3
Political Science 2010	3
Reading 3030, 3060	6
	35

FOURTH YEAR	SEM. HRS.
Education 4040 (04,05) ¹	12
English 3210	3
Physical Education 3170	2
Reading 4610	3
Social Studies 3030	3
Special Education 3460	3
Family and Consumer Science 4010	1
	27

Total Semester Hours for Degree: 133

Footnotes:

¹ Meets requirements for certification for kindergarten and nursery school.

² Selected to meet University core requirements.

³ Student teaching constitutes a full academic load for one semester.

Bachelor of Science in Hospitality Management and Tourism

Hospitality Management and Tourism Major Requirements : (56-57 semester hours) Students seeking a major in Hospitality Management and Tourism must complete 56-57 semester hours, within the 131-133 semester hour Hospitality Management and Tourism curriculum, which include Hospitality Management and Tourism 1000, 2000, 4150, 4200; one nutrition course; Family and Consumer Science 1070, 1120, 3030, 4010, 4500 (12 hrs). Completion of a Hospitality Management and Tourism concentration area (24-25 hours). Special requirements: Completion of an approved minor, six hours foreign language, Journalism 3060.

Available Concentrations:

Hospitality Services: (25 semester hours) Hospitality Management and Tourism 3000, 3020, 3080, 4100; Family and Consumer Science 2050, 3050, 3070; choose one from Family and Consumer Science 3090, or 3100, or Merchandising 3200.

Recreation Administration: (25 semester hours) Hospitality Management and Tourism 2020, 3010, 3150, 4250; Family and Consumer Science 3050; six semester hours from Forestry 1110, Zoology 2290, Geography 2010, or Social Studies 3030; four semester hours from Physical Education 1110, 2070, 2230, 2240.

Travel & Tourism: (24 semester hours) Hospitality Management and Tourism 1010, 2050, 3010, 3150, 4250; Family and Consumer Science 3090 or 3100; three semester hour history elective; Geography 1010.

Curriculum for Bachelor of Science in Hospitality Management and Tourism (135)

FIRST YEAR	SEM. HRS.
Computer 1020	3
English 1010, 1020	6
Family & Consumer Science 1070, 1120	2
Fine Arts 1040	3
Health Education 1010	2
Hospitality Management & Tourism 1000	3
Mathematics 1020, 1060	6
Nutrition 1020 or 1030, or 1050	2-3
Orientation 1010	1
Science ¹	3
Speech 1010	3
	34-35

SECOND YEAR	SEM. HRS.
Electives ³	9
English literature ¹	3
History 2010 or 2020	3
Hospitality Management & Tourism 2000	3
Hospitality Management & Tourism concentration area ²	6
Science ¹	6
Social Sciences ¹	3
	33

THIRD YEAR	SEM. HRS.
Electives ¹	9
Family and Consumer Science 3030	3
Foreign language.....	6
Hospitality Management & Tourism concentration area ²	9
Journalism 3060	3
Social science ¹	3
	33

FOURTH YEAR	SEM. HRS.
Elective ³	3
Family & Consumer Science 4010, 4500	13
Hospitality Management & Tourism concentration area ²	9-10
Hospitality Management & Tourism 4150, 4200	6
	31-32

Total Semester Hours for Degree: 131-133

Footnotes:

¹ Selected to meet University core requirements.

² Chosen to meet Hospitality Management and Tourism concentration area.

³ Electives must be chosen so as to complete an approved minor as defined by the department concerned.

Graduate Programs

Master of Education with a Concentration in Early Childhood Education

(See College of Education, Graduate Programs)

DEPARTMENT OF HEALTH AND HUMAN PERFORMANCE

Department Head: C. Newton Wilkes, *Professor*

Professors: Bonnette, Dickens, R. Gentry, Molstad

Associate Professors: Moulton, V. Gentry

Assistant Professor: Fischer-Massie

Instructors: Evans, L. Johnson, McMillan

Bachelor of Science in Physical Education

Physical Education Major Requirements: (49 semester hours) Students seeking a major in Physical Education must complete 49 semester hours, within the 130 semester hour Physical Education curriculum, which includes: Health Education 1010, 1090, 2000, 4500, 4600, 4880; Physical Education 2010, 2110, 2270, 2630, 3190, 3550, 3560-3561, 4110, 4150, 4960; 2200 or 2210; 2230 or 2240, and a two semester hour elective from Physical Education 2070, 2170, 2200, 2210, 2230, 2240, 2290.

Athletic Training Minor Requirements: (31 semester hours) Health Education 1010, 1090, 2010, 2030, 3010, 4030; Physical Education 3550, 3560-3561, Zoology 1220-1221, 1230-1231.

Available Concentrations:

Health and Exercise Science: (26 semester hours) Health Education 1010, 1090, 3000, 4000, 4600; Physical Education 2000, 2630, 3550, 3560, 4100, 4190, 4200, 4500; Approved Health and Physical Education electives (6). Business Administration 3250; Chemistry 1070, 1080, 1091; Computer 1020 or 2010; Economics 2000; Marketing 3230.

Curriculum for Bachelor of Science in Physical Education (372)

FIRST YEAR	SEM. HRS.
English 1010, 1020	6
Fine Arts 1040	3
Health Education 1010	2
History 2010 or 2020	3
Mathematics ¹	6
Orientation 1010	1
Physical Education 2010	3
Science 1010, 1020	6
Social science ¹	3
	33

SECOND YEAR	SEM. HRS.
Education 2020	3
Educational Psychology 3000	3
English literature ¹	3
Health Education 1090, 2000	6
Physical Education 2110, 2200 or 2210, 2270, 2630	9
Science ¹	3
Social science ¹	3
Zoology 1220-1221	4
	34

THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Education 3020, 3140	4	Education 4010 ² , 4020 ²	15
Educational Psychology 3010	3	Health Education 4880	3
English 3210 or 3230	3	Physical Education 3190, 3560-3561, 4110	8
Health Education 4500, 4600	6	Special Education 3460	3
Physical Education 2230 or 2240, 3550, 4150, 4960 ² , elective	12		29
Reading 4080	3		
Social science ¹	3		
	34		

Total Semester Hours for Degree: 130

Footnotes:

¹ Selected to meet University core requirements.

² Must be admitted to teacher candidacy prior to enrolling in these courses.

Adaptive Physical Education Teacher Certification (See College of Education, Teacher Certification Programs)

Graduate Programs

Master of Education (532)

Undergraduate preparation: Undergraduate preparation for a major or minor in Health and Physical Education as defined by Northwestern State University of Louisiana.

Degree Requirements: Minimum of 33 semester hours to include

- A. Foundations: Education 5010, 5030, and Educational Psychology 4400
- B. Concentration: Physical Education 4360, 5250, 5430, 5470, or 5660
- C. Support Area: Health Education 4880, 5100, 5200
- D. Application: Physical Education 5690

Available Concentrations:

Sports Administration (532C)

- A. Foundations: (Nine semester hours) Education 5010, Educational Psychology 4400¹, and Computer 5010 or CIS 4800 or ETEC 5770
- B. Concentration: 12-24 semester hours selected from Physical Education 5120, 5130, 5140, 5160, 5190, 5220
- C. Support Area: 0-9 semester hours
- D. Application: (Nine semester hours) Physical Education 5690 (3 semester hours, research project), and 5990 (3 semester hours, Internship)

Health Promotion (532D)

- A. Foundations: (Nine semester hours) Education 5010, Educational Psychology 4400¹ and Computer 5010 or CIS 4800 or ETEC 5770
- B. Concentration: 12-24 semester hours selected from Health Education 5100, 5200, 5300, 5370, 5400², Physical Education 5470, elective approved by committee
- C. Support Area: 0-9 semester hours
- D. Application: Physical Education 5990 (0-6 hours, Internship)

¹ Educational Psychology 4400 is a prerequisite for Education 5010 and both of these courses must be completed or taken simultaneously with the Physical Education or Health Education graduate courses.

² Must successfully complete Health Education 5300 prior to enrolling.

DEPARTMENT OF INDUSTRIAL TECHNOLOGY

Coordinator: William H. Dennis, *Professor*
Professor: Eppler
Associate Professors: Bachnak, Hall, Wied
Assistant Professor: Vogel

Degree Programs Available Through the Department of Industrial Technology:
Bachelor of Science in Electronic Engineering Technology
Bachelor of Science in Industrial Technology
Associate Degree in Electronic Technology

Bachelor of Science in Electronic Engineering Technology

Electronic Engineering Technology Major Requirements: (69 semester hours) Students seeking a major in Electronic Engineering Technology must complete 69 semester hours, within the 127 semester hour Engineering curriculum, which include Engineering Technology 1300-1301, 1320-1321, 2320-2321, 2350, 2360-2361, 2390-2391, 3300-3301, 3340-3341, 4300-4301 or 4350-4351, 4310-4311; Industrial Technology 1400, 1700, 3720, 4750, and eleven semester hours in engineering or industrial technology electives.

Electronic Engineering Technology Minor Requirements: (25 semester hours) Engineering Technology 1300-1301, 1320-1321, 2320-2321, 3340-3341; and five additional semester hours of electronic courses.

Curriculum for Bachelor of Science in Electronic Engineering Technology (141)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Engineering Technology 1300-1301, 1320-1321.....	10	Engineering Technology 2320-2321, 2350, 2360-2361, 2390-2391	18
English 1010, 1020	6	Fine Arts 1040.....	3
Health and personal fitness ¹	4	History ¹	3
Industrial Technology 1400, 1700	4	Mathematics 2020	6
Mathematics 1810.....	6	Speech 1010.....	3
Orientation 1010	1		31
	31		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Computer Science 1060	3	Biological science ¹	3
Engineering Technology 3300-3301, 3340-3341.....	10	Chemistry 1030.....	3
Engineering or industrial technology electives ²	5	English literature ¹	3
Industrial Technology 3720	3	Engineering Technology 4300-4301 or 4350-4351, 4310-4311	10
Physics 2030-2031, 2040-2041	8	Engineering or industrial technology electives ²	6
Social science ¹	3	Industrial Technology 4750	3
	32	Social science ¹	3
			31

Total Semester Hours for Degree: 127

Footnotes:

- ¹ Must meet University core requirements.
- ² Electives must be approved by faculty advisor.

Bachelor of Science in Industrial Technology

Industrial Technology Major Requirements: (69 semester hours) Students seeking a major in Industrial Technology must complete 69 semester hours, within the 126 semester hour Industrial Technology curriculum, which include Engineering Technology 1300-1301, 1320-1321, 2320-2321, 2360-2361; Industrial Technology 1020, 1400, 1450, 1700, 1800, 2450, 2740, 2830 or 2840, 2020, 3720, 4720 or 4820, 4730 or 4760, 4750; and 12 semester hours in industrial and engineering technology electives and/or approved cooperative occupational field experience.

Requirements for a Minor in Industrial Technology: (24 semester hours) Engineering Technology 1300-1301; Industrial Technology 1020, 2450, 2740, and 10 semester hours in one of the following areas: drafting, electronics, or metals.

Curriculum for Bachelor of Science in Industrial Technology (143)

FIRST YEAR	SEM. HRS.
Computer 1020.....	3
English 1010, 1020	6
Industrial Technology 1020, 1400 ¹ , 1450, 1700, 1800, 2450	16
Mathematics 1810	6
Orientation 1010	1
	<u>32</u>

SECOND YEAR	SEM. HRS.
Engineering Technology 1300-1301, 1320-1321.....	10
English literature ²	3
Health and personal fitness ²	4
Industrial Technology 2740, 2830, or 2840.....	6
Mathematics 2010 or 2050	3
Social science ²	3
Speech 1010	3
	<u>32</u>

THIRD YEAR	SEM. HRS.
Computer Science 1030	3
Economics 2000 or 2010	3
Engineering Technology 2320-2321, 2360-2361	10
Fine Arts 1040.....	3
History ²	3
Industrial Technology 2020, 3720	6
Physics 2030-2031	4
	<u>32</u>

FOURTH YEAR	SEM. HRS.
Chemistry 1030	3
Elective.....	3
Industrial Technology 4720 or 4820, 4730 or 4760, 4750	9
Industrial and engineering technology electives and/or occupational field experience ³	12
Science 1020	3
	<u>30</u>

Total Semester Hours for Degree: 126

Footnotes:

¹ Students may take a proficiency test if two units of mechanical drawing were completed in high school.

² Must meet University core requirements.

³ Electives must be approved by faculty advisor, and may include a maximum of three hours of occupational field experience.

Associate Degree in Electronic Technology

Curriculum for an Associate Degree in Electronic Technology (732)

FIRST YEAR	SEM. HRS.
Chemistry 1030.....	3
Engineering Technology 1300-1301, 1320-1321	10
English 1010, 1020	6
Industrial Technology 1400 ¹ , 1700	4
Mathematics 1810	6
Orientation 1010	1
	<u>30</u>

SECOND YEAR	SEM. HRS.
Engineering Technology 2320-2321, 2360-2361, 2390-2391, 3340-3341	20
Industrial Technology 3720	3
Mathematics 2020	6
Physics 2030-2031	4
	<u>33</u>

Total Semester Hours for Degree: 63

Footnotes:

¹ Students may take a proficiency test if two units of mechanical drawing were completed in high school

Industrial Arts Education

(See College of Education, Secondary Education)

**Pre-Engineering
Curriculum for Pre-Engineering (633C)**

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Chemistry 1030, 1040, 1051.....	8	Computer Science 2010	3
English 1010, 1020	6	Economics 2010	3
Industrial Technology 1400, 1700	4	English literature	3
Mathematics 2100, 2110 ¹	10	Mathematics 3130, 3160	6
Orientation 1010	1	Physics 2510-2511, 2520-2521	10
Social science.....	3	Social science.....	3
	32	Technical electives ²	6
			34

Footnotes:

¹ Students who are deficient in algebra and trigonometry should take Mathematics 1100.

² Electives determined by field of engineering to be pursued.

DEPARTMENT OF MATHEMATICS

Coordinator: Ben Rushing, Jr., *Associate Professor*

Professors: Chadick, S., Ryan, Temple, Webb

Associate Professors: Covington, Hanson, Pitt, Pollacia

Assistant Professors: DeVault, Galminas, Myers, Serio

Instructors: Autrey, K. Chadick, Kelly, Poole, M. Tarver, Toussaint, Veuleman

Bachelor of Science in Mathematics

Mathematics Major Requirements: (48 semester hours) Students seeking a major in Mathematics must complete 48 semester hours, within the 121 semester hour Mathematics curriculum, which include Mathematics 1010, 1100, 2080, 2100, 2110, 3090, 3100, 3130, 4950, 21 semester hours from 3000-4000 level mathematics courses.

Requirements for a Minor in Mathematics: (20 semester hours) Mathematics 1100, 2100, and nine semester hours selected from 2110 and/or any 3000-4000 level mathematics course(s).

Curriculum for Bachelor of Science in Mathematics (642)

FIRST YEAR	SEM. HRS.	SECOND YEAR	SEM. HRS.
Computer Science 1060	3	Biology 1010-1011.....	4
English 1010, 1020	6	Computer Science 2060	3
Fine Arts 1040.....	3	English literature ¹ or English 3210.....	6
Health and personal fitness ¹	4	Mathematics 2080, ² 2110, 3090	12
History ¹	3	Physics 2510-2511	5
Mathematics 1010, 1100, 2100.....	12	Social science ¹	3
Orientation 1010	1		33
	32		
THIRD YEAR	SEM. HRS.	FOURTH YEAR	SEM. HRS.
Chemistry 1030.....	3	Electives ²	15
Electives ²	7	Mathematics 4950, electives ³	12
Mathematics 3100, 3130, electives ³	12		27
Science elective ⁴	4		
Social science ¹	3		
	29		

Total Semester Hours for Degree: 121

Footnotes:

¹ Must meet University core requirements.

² It is strongly recommended that a minor be in an area of computer science, physics, or chemistry.

³ Upper level mathematics or Statistics 4270.

⁴ Selected from Biology 1020-1021, Chemistry 1040-1051, or Physics 2520-2521.

DEPARTMENT OF MILITARY SCIENCE

Reserve Officers' Training Corps General Military Science Program

Coordinator: LTC James D. Bulger, *Professor*
Assistant Professors: Captains Doyle, Hunt, Smith
Instructor: Master Sergeant Strong

Purpose

The senior ROTC program at NSU is voluntary. Successful completion of ROTC will qualify students, who desire to serve their country, to be commissioned as officers in the Army (on active duty), the U.S. Army Reserve or the Army National Guard upon graduation. Students may minor but not major in Military Science.

Four-year Program

The four-year program is divided into two parts: (1) Basic Course, first two years and (2) Advanced Course, including summer camp, last two years.

The Basic Course consists of classroom instruction for a minimum of one hour and a two-hour laboratory per week. No commitment is incurred by students who enroll in the Basic Course.

The Advanced Course consists of classroom instruction for a minimum of two hours per week, a two-hour laboratory for two academic years and attendance at a six week summer camp, normally between the junior and senior academic year. Advanced Course students are required to do physical training three hours per week as part of the laboratory. Also, Advanced Course students must take at least one course from each of the following academic areas: Written Communications skills; Military History; Computer Literacy; Mathematics; and Human Behavior (Social Science or Psychology). Specific requirements are available from the Military Science department.

Two-year Program

The two-year program allows qualified sophomores and juniors to enter the Advanced Course program in one of three ways:

1. Completion of the Basic ROTC Summer Camp (MSCI 2080) in the summer before their junior year.
2. Honorably discharged prior service students, who were eligible to reenlist and who will be under the age 30 on the date of commissioning/graduation.
3. Current members of the Army Reserve or Army National Guard who enroll in the Simultaneous Membership Program (SMP).

Enrollment

To be eligible for enrollment in the Basic Course, a student must:

1. Be accepted by the University as a full-time enrolled student.
2. Be at least 17 years of age at time of enrollment.

To be eligible for enrollment in the Advanced Course, a student must, in addition to the above:

1. Be a citizen of the U.S.
2. Be physically qualified under standards prescribed by the Department of the Army.
3. Be enrolled as a full-time student.
4. Apply for admission into the Advanced Course.
5. Be accepted by the Professor of Military Science.
6. Be at least 17 and not more than 27 years of age at the time of enrollment and graduate before the age of 30. (Age waivers to age 34 are possible for exceptional students).
7. Have a cumulative grade point average of at least 2.0.
8. Have completed the ROTC Basic Course or equivalent as listed under the two-year program.
9. Be classified as an academic junior by the University.

Scholarship Program

Two, three, and four-year Army ROTC scholarships as well as civic scholarships provide financial assistance for qualified and selected students who exhibit strong motivation toward careers as officers in the United States Army. An Army ROTC scholarship will pay all tuition expenses, \$225 per semester for books, mandatory laboratory expenses (except Aviation fees), and provides a stipend of \$150 per month during enrollment. Qualified ROTC scholarship winners also receive a Northwestern State University "ROTC Plus Package Scholarship" which provides \$1,040 per semester toward dormitory and meal plan fees.

To apply for an ROTC scholarship, the student must:

1. Display a strong desire for a career as an officer in the Regular Army.
2. Be a citizen of the U.S.
3. Have a minimum cumulative GPA of 2.5 and ACT score of 19 or higher.
4. Be at least 17 years old by October of the year in which the application is made.
5. Pass the US Army Officer physical entrance examination.
6. Agree to accept a commission if offered.
7. Agree to serve at least three years on active duty.

Commissions

Upon completion of the Advanced Course and graduation from the University, a student may be commissioned as a Second Lieutenant to serve on active duty or be offered a commission in the U.S. Army Reserve or National Guard. Commissions in the Army Reserve or National Guard can be guaranteed to individuals who express this preference. A delay to enter into active duty may be granted to students who desire to pursue full-time courses of instruction leading toward advanced degrees. Commissionees incur an eight year service commitment. Nonscholarship students can serve on active duty or serve in the National Guard or Reserves in an active or inactive status, or any combination thereof totaling eight years. Scholarship students are expected to serve on active duty for four years with a three or four year scholarship or three years with a two year scholarship.

Uniforms, Texts and Equipment

The government lends all uniforms, texts and equipment required at each level of the program. (These items must be returned upon leaving the ROTC program at NSU or upon commissioning.)

Allowances

Advanced Course students and ROTC Scholarship recipients receive non-taxable subsistence pay of \$150 per month during the school year and one-half of a Second Lieutenant's pay (approx. \$800.00) during ROTC summer camp. All travel expenses are reimbursed and room and board is provided during camp.

Special Summer Training

Special 3-4 week Summer training opportunities are available to selected Basic Course and/or Advanced Course students who volunteer and are qualified. This training includes Airborne School; Air Assault School; Northern Warfare School; Mountain Warfare; and Cadet Troop Leader Training Program. Travel expenses, room and board are provided for these U.S. Army Schools.

Military Science Minor Requirements

A student may earn a minor in Military Science by completing a total of 19 semester hours from any combination of Military Science courses. Additionally, History 2100 may be used to satisfy three semester hours of minor requirements.

THE LOUISIANA SCHOLARS' COLLEGE

Acting Director: Margaret Cochran, *Assistant Professor*

Professors: Ballenger, D'Amato, Keller, Snowden

Associate Professors: Cole, Jensen, Means, Phifer, Schickeltanz, Wolffe

Assistant Professors: Francis, Newton, Prince

Established by the Louisiana Board of Regents for Higher Education in 1987, the Louisiana Scholars' College serves as the state's selective-admission honors college of the liberal arts and sciences. Its mission is to provide honors education in the arts and sciences to highly motivated students. Through a broad and coherent Common Curriculum, the College offers an education meeting the standards set by the Regents for the Certificate of Excellence in undergraduate study. Building on this strong foundation and working in close consultation with one or more faculty advisors, students choose to pursue advanced study in a traditional Major offered in cooperation with the Colleges of Liberal Arts, Science and Technology, Business, and Education or design individualized plans of study for a Major in Liberal Arts and a Concentration in one of three areas: Humanities and Social Thought, Scientific Inquiry, or the Fine and Performing Arts. Each of these undergraduate curricula culminates in a senior thesis or project.

In seminars, laboratory courses, small classes on interdisciplinary topics, and individual directed study, students in the College are challenged by a faculty wholly committed to undergraduate education in the liberal arts and sciences. Living together in Boozman Hall, an honors residence, and attending classes in Morrison Hall, the academic center of the College, students with diverse interests but similar abilities and a common commitment to learning form a distinctive community within the larger University. In addition, they energetically participate in all aspects of campus life, frequently taking leadership roles, as they prepare for advanced study, professional careers, responsible citizenship, and fulfilling lives.

I. THE COURSE OF STUDY

The academic experience in the Louisiana Scholars' College has three components: a.) the **Common Curriculum** required of all students; b.) a traditional **Major** individualized **Concentration** within the Major in Liberal Art; and c.) a selection of **Additional Electives**.

An Overview of the Curriculum

THE COMMON CURRICULUM

Course Title	Credits (× Semesters)	Total Credits
Texts and Traditions: The Shaping of Western Thought	5(×4)	20
Democratic Vistas: The Idea of America	4(×1)	4
Paradigms of Nature		
Mathematics	5(×1)/3(×2)	5/6
Science	4(×3)	12
Science Seminar	1(×3)	3
Critical Reading, Critical Writing	4(×1)	4
Foreign Language	4(×3)	12
Senior Colloquium	2(×2)	4
Computer Applications	1(×1)	1
Orientation	1(×1)	1
Total Credits in the Common Curriculum		66/67

THE MAJOR OR CONCENTRATION

Specialized Courses	36-88
Thesis	6
Total Major Credits	42-94

ADDITIONAL ELECTIVES

Approved Electives (varies by major and concentration)	0-24
Total Credits for graduation	125-161

A. THE COMMON CURRICULUM

At the heart of the Common Curriculum is a series of seminars devoted to the great works and significant ideas which have shaped our world. Through analysis and debate in these seminars, students develop skill in argument and expression, achieving a sense of shared purpose, as they ready themselves for advanced work in one of the Majors or Concentrations.

Texts and Traditions: The Shaping of Western Thought

(Four semesters, 5 credits per semester: 20 credits)

In the first and second years, students in the College meet in seminars to discuss major texts from the ancient to the modern world. The plural title *Texts and Traditions* was selected to emphasize that our cultural inheritance does not take the form of a fixed repertoire of documents or a single pattern of thought, but consists of conflicting works and ideas, and of varied, often sharply antagonistic, perspectives. The reading list is regularly reviewed and revised. Over the span of four semesters, students move chronologically from antiquity through the twentieth century, and are currently reading works by such central figures as Homer, Plato, Dante, Shakespeare, Descartes, Galileo, Marx, Austen, Darwin, Dostoyevsky, Freud, Levi-Strauss, Woolf, and Kundera.

Democratic Vistas: The Idea of America

(One semester, 4 credits per semester: 4 credits)

Continuing the agenda of the *Texts and Traditions* seminars, juniors in the College enroll in a one-semester seminar focused on essential works in the American cultural tradition from the colonial era to the present day. Like all courses in the College, *Democratic Vistas* takes a cross-disciplinary approach, emphasizing representative works by those who have shaped our culture, such as Franklin, Tocqueville, Thoreau, Douglass, Dickinson, Mark Twain, William James, Charles Ives, Henry Ford, Jasper Johns, Huey Long, Martin Luther King, Toni Morrison, and Thorstein Veblen.

The Senior Colloquium

(Two semesters, 2 credits per semester: 4 credits)

Seniors in the College participate in a year-long seminar on an issue of pressing contemporary concern. Interdisciplinary topics are chosen each year by representatives of the senior class working in collaboration with the faculty. Recent topics such as "Mediated Realities: The Media and National Values" or this year's topic, "Crime and Punishment in the Modern World", for example require study from many perspectives-historical, scientific, political, social, economic, and ethical. While seniors in the College focus much of their attention on their theses and advanced courses, the Senior Colloquium allows them to continue the collaborative inquiry and independent analysis which are the hallmark of the College's integrated, multidisciplinary liberal arts curriculum.

Paradigms of Nature

(20-21 credits)

The various courses arrayed under the heading "Paradigms of Nature" explore essential elements of mathematics and the sciences and develop skill in quantitative reasoning and experimental procedure together with an understanding of the main theoretical postulates of modern science. All students must take at least three semesters of science-a two semester sequence in the life or physical sciences and one semester in the other. For math, students must complete either a semester of calculus, or at least two of the following: Applied Math, Pure Math, or Precalculus. In addition, three semesters of science seminar, in which students focus on oral and written analysis of writing about science, are required. When students complete the *Paradigms* component, it is hoped that they will be able to recognize the relationships between these disciplines as well as their relationships with the Humanities and the Fine and Performing Arts and that they will have learned techniques of inquiry and analysis common to all scientific learning.

Critical Reading, Critical Writing

(One semester, 4 credits per semester: 4 credits)

Writing-intensive seminars on various topics in several disciplines are offered to entering students under the general heading *Critical Reading, Critical Writing*. These courses are designed to cultivate students' powers of analysis, debate, and written argument, as part of their study of major thinkers, influential ideas, and significant cultural issues. Recent offerings have focused on topics in philosophy, music, literature, history, sociology, and science.

Foreign Language

(Three semesters, 4 credits per semester: 12 credits)

The study of foreign languages is at once an important discipline of mind, a practical necessity in an increasingly interdependent world, and an essential element in the understanding of other cultures. Offering instruction in French, German, Latin, and Spanish, the College requires that each student study at least three semesters of the language of his or her choice, or establish by examination a comparable level of competence.

Computer Applications (One semester, 1 credit) and **Orientation** (One semester, 1 credit)

Finally, two important courses for entering students prepare them for the demands of the College curriculum. In Computer Applications, students learn basic word-processing operations, using Microsoft Word, become conversant with spreadsheets such as Excel, and develop Internet research skills using the College's personal computer laboratory, which is networked to the University's mainframe computer. In Orientation classes, first-year students are introduced to the history and traditions of the University and the College; curricular options, academic regulations, and the Honor Code; and essential interpersonal, study and research skills. They also begin to examine opportunities for internships, advanced study, and careers.

B. THE MAJOR OR CONCENTRATION

Students in the Louisiana Scholars' College deepen their understanding of a specialized area of inquiry, while preparing for advanced study and careers in professions such as medicine, law, business, education, scientific research, public administration, the foreign service, and many other fields. Depending upon their interests, they may pursue either a traditional Major in Liberal Arts, a unique program which offers students a greater opportunity to develop an individualized degree program of enhanced academic rigor. Both of these options emphasize the flexibility of mind, the breadth of experience, and the solid grounding in the liberal arts increasingly demanded by corporations and the professions. Students are expected to declare a major and begin to focus their academic program by the end of the sophomore year.

In cooperation with the Colleges of Business, Liberal Arts, and Science and Technology, Scholars' College students may pursue a variety of traditional majors by undertaking specified advanced work in academic departments outside the Scholars' College. Majors in the following areas lead to the Bachelor of Arts degree: Anthropology, Art, English, History, Journalism, Political Science, Social Science, Sociology, and Theater. Students interested in performance may complete the Bachelor of Music degree. In addition, the following majors are available, leading to the Bachelor of Science degree: Accounting, Biology, Business Administration, Chemistry, Computer Information systems, Mathematics, Physics, and Psychology. Students electing to pursue one of these majors will be assigned an advisor in the major department, in addition to their Scholars' College advisor, specifically to direct the student's work within the major. To obtain more information about majors in the open university or for degree requirements pertaining to students completing the Common Curriculum, see the Director of the College or the appropriate department head.

Within the Major in Liberal Arts, each of the Concentrations requires that students complete at least 45 credits, including the thesis, from a list of approved courses in the appropriate disciplines. Those majoring in the Liberal Arts are expected to submit a Declaration of Concentration at the end of the sophomore year, articulating the direction of their academic program, its organizing principles, and its purpose. Although specific requirements are minimal, allowing flexibility in the choice of courses, students are expected to work in close consultation with one or more faculty advisors to design a coherent course of study. This academic plan should be multidisciplinary or interdisciplinary in nature, yet should have a clear focus, provide for both breadth and rigor, and prepare the student to complete the senior thesis or project, required of all students in the College. Students concentrating in Humanities and Social Thought will choose from courses in such disciplines as anthropology, classics, economics, history, foreign languages, literature, philosophy, political science, and sociology. Those concentrating in Scientific Inquiry will select from offerings in the life sciences, the physical sciences, and mathematics and computer science. Students in the Fine and Performing Arts Concentration focus their studies on the history and performance of the visual arts, music, dance, or theater.

1. Humanities and Social Thought

Historically, study in the liberal arts has been thought to foster certain valuable qualities of mind and character. This, rather than an exclusive preoccupation with an arbitrarily compartmentalized "field" of knowledge, has over the centuries provided the charter and justification for humanistic learning.

Instead of seeking to transmit a fixed repertoire of information, the Humanities and Social Thought Concentration attempts to develop essential intellectual capacities and experiences which may be learned and applied in many different contexts across the disciplines. Accordingly, most upper-level courses emphasize distinctive modes of ordering knowledge, that is significant "ways of knowing":

- Major Figures: such as Plato, Shakespeare, Napoleon, or Austen;
- Period Studies: such as Athens in the Fifth Century, the Victorian Imagination, the French Revolution, or the Lost Generation;
- Problems in Theory and Method: such as Poetry and Poetics, Introduction to Ethics, Introduction to Economic Reasoning, or Qualitative Research Methods;
- Social Institutions and Processes: such as Wealth and Poverty in the United States, Gender and Contemporary Society, or the Sociology of Families.

Students in the Concentration must complete 45 hours of course work beyond the Common Curriculum in appropriate disciplines, of which at least 30 hours are at the 3000 level or above, exclusive of the thesis; must complete at least one course from each of the distinctive "ways of knowing"; and by the end of the junior year must complete at least one course at the 3000 level which includes an extended scholarly essay. Apart from these requirements, the precise distribution of credits within the Concentration is determined individually by each student, in close consultation with his or her advisor, and subject to the approval of the Director.

2. Scientific Inquiry

Students concentrating in Scientific Inquiry pursue a curriculum emphasizing biology, chemistry, physics, mathematics, statistics, and computer science. Working closely with faculty mentors, these students in the senior year design research projects, that are experimental, theoretical, or expository in nature, and may utilize all three approaches. In short, the students engage in serious scientific research and thus acquire the skills necessary for advanced work in the sciences as well as for the study of medicine, dentistry, public health, or veterinary science.

Though each of the disciplines requires mastery of its own distinctive corpus of knowledge, those engaged in scientific study share certain essential "tools" for obtaining and evaluating new information. The Concentration in Scientific Inquiry is designed not only to foster an understanding of the history, theoretical foundations, applications, and technologies specific to a discipline, but also to develop those powers of deduction, analysis, evaluation, and communication crucial to all scientific learning. Each student acquires these capacities by moving systematically from the more elementary to the more advanced, from those skills needed to formulate a research question to those required to complete an inquiry and evaluate its results in the light of other research. More specifically, the Concentration in Scientific Inquiry is designed to develop the essential skills of locating existing information, forming hypotheses, designing experiments, analyzing and interpreting scientific results communicating scientific findings, and evaluating scientific research.

In addition to completing 24 hours at the 3000 level or above, exclusive of the thesis, students in this Concentration must complete: two semesters of calculus; two semesters of a single life science and two semesters of a single physical science; an additional 3 hours of mathematics at the 2000 level or above, computer science, or statistics; 3 hours of logic, ethics, or the history or philosophy of mathematics or science; and participate in a research seminar analyzing original scientific literature. Apart from these requirements, the precise distribution of credits within the Concentration is determined individually by each student, in close consultation with his or her advisor, and subject to the approval of the Director.

3. The Fine and Performing Arts

Drawing upon the resources of the University, especially the faculty and facilities of the Department of Creative and Performing Arts, each student concentrating in the Fine and Performing Arts designs an Academic Plan appropriate to his or her talents and career interests, but one that remains firmly grounded in the College's integrated core of studies. For their senior projects, students in the arts may elect to exhibit their artistic training and accomplishment through a musical performance or composition, an exhibition of artwork, or some other appropriate medium. However, it is expected that each project will also include a substantial expository component, placing the works or the processes involved in historical, theoretical, or critical perspective.

Through study of the liberal arts and sciences, students in the Fine and Performing Arts Concentration can be assured of a rich understanding of the development of the arts and their place at various historical moments in our culture and other cultures around the

world. Through their individualized Academic Plans, students in this Concentration combine technical preparation in an art with contemplative and scholarly perspectives. As in the other Concentrations, competence in an artistic discipline requires the mastery of a specific body of knowledge and skills, to such an extent that most students will find it necessary and rewarding to focus on a single artistic field: art, dance, music, or theater.

Those concentrating in the arts must complete at least 24 hours, exclusive of the thesis, at the 3000 level or above. No more than 6 hours of the 24 may be in performance courses. Together with at least 15 additional hours of fine arts electives, these courses must include at least 28 from a single area and three hours from a second discipline. The course of study normally will include a number of courses fostering artistic skills, such as private music lessons, studio art, theater practica, recitals and concerts. Apart from these demands, the precise distribution of credits within the Concentration is determined individually by each student, in close consultation with his or her advisors, and subject to the approval of the Director.

C. THE THESIS

Extending over the whole of the senior year, the thesis project is the culmination of a student's academic work. Though theses will vary in length and scope, each is to be a substantial work of scholarship, criticism, scientific research, or artistic execution. The thesis should demonstrate the student's familiarity with existing work in his or her field, together with the ability to define a significant topic or problem, to carry out independent scholarly research, to analyze evidence, and cogently to sustain a complex written argument. At the completion of the project, each student presents and defends his or her work to the College and the University community at large.

Each year the College publishes a Thesis Calendar of due dates and guidelines for those who are researching and writing or performing senior projects.

D. ADDITIONAL ELECTIVES

Many of the courses in the Common Curriculum, the Majors, and the Concentrations are, in effect, electives chosen by the student in consultation with the advisor. The phrase "Additional Electives" refers to those credits, which vary from major to major, over which the student exercises virtually complete control, subject only to the expectation that these courses be part of a rigorous and coherent academic plan. Such credits may be used to develop a minor, augment the Concentration, or to explore other fields within the College or the University.

E. OPPORTUNITIES FOR STUDY ABROAD

Through Northwestern International and the International Student Exchange Program (ISEP), undergraduates in the College are eligible to take part in a wide variety of foreign study programs. Over the past several years students have travelled with College faculty in Italy and have studied at participating ISEP institutions in Canada, Mexico, Great Britain, Ireland, Finland, Sweden, the Netherlands, and Malta, to name a few.

II. ACADEMIC ADVISING

Because of the flexibility and individualized nature of the College curriculum and the high degree of autonomy exercised by students in shaping their academic programs, the advising process is especially important. All students are assigned an advisor within the College, with additional advisors from the College or University assigned as warranted by the student's interests. Students are encouraged at any time to seek assistance from other members of the College faculty, all of whom regard academic advising as an essential part of their mission. Those electing to pursue a major other than Liberal Arts will be assigned an advisor in the major department, in addition to their Scholars' College advisor, specifically to direct the student's work within the major.

Each student's progress is subject to periodic review by faculty advisory groups such as the Concentration Committee or the College Curriculum Committee, as well as by the Director of the College.

III. THE HONOR CODE

The community of students, faculty, and staff of the Louisiana Scholars' College trusts that its members will act honorably in every endeavor. The College's Honor Code promotes individual and communal responsibility and directly involves all of us in maintaining our academic community. This Code represents a voluntary and internal standard, separate from state and University regulations, for encouraging the highest level of individual respect and ethical behavior.

IV. GRADUATION REQUIREMENTS AND HONORS

All those admitted to senior standing who satisfactorily complete the Common Curriculum, their Major or Concentration requirements, their other senior course work, and the thesis while earning a cumulative Grade Point Average of 3.0 or higher, are awarded the Bachelor of Arts or Bachelor of Science degree in the Louisiana Scholars' College at Northwestern State University. By design, all such students also qualify for the Board of Regents' Certificate of Excellence in Undergraduate Education. The Major, Concentration, and thesis title are recorded on each graduate's transcript. Those whose academic record and thesis reflect unusual intellectual accomplishment and who have been active in the life of the College and University are chosen each year by the faculty to be awarded degrees "with distinction" or "with highest distinction." Scholars' College students are also eligible to receive the scholastic honors *cum laude*, *magna cum laude*, and *summa cum laude* from the University.

V. ADMISSION

The College seeks highly motivated students interested in an exciting liberal arts education. Candidates begin by submitting an application to the College, teacher and counselor recommendations, and an essay. The Selection Committee carefully examines the student's record, including high school transcripts, academic honors, extracurricular activities, and standardized test scores (either ACT or SAT). Interviews are required and campus visits are strongly encouraged. Admission decisions are made on a rolling basis as applicants' files are completed, until the entering class is filled. Students are encouraged to complete their admission and scholarship applications by January, although late applications are welcome. For further information, contact the College or the Admissions Office at Northwestern State University.

VI. SCHOLARSHIPS, WORK-ASSISTANTSHIPS, AND FINANCIAL AID

Students admitted to the Louisiana Scholars' College are candidates for the University's most prestigious scholarships. The College's Application for Admission serves as application for all academic scholarships the University offers.

Undergraduate work-assistantships are also available. Students who qualify receive campus jobs—assisting in the library, in the computer center or scientific laboratories, in the office of the College, or in some other area of particular interest to the student. Upperclassmen may be invited to serve as research assistants to members of the faculty, collaborating on scholarly projects or laboratory research.

In addition to academic awards, students in the College may also qualify for Pell Grants, PLUS loans, ROTC Scholarships, and other forms of financial assistance. Students who are not Louisiana residents may qualify for out-of-state fee waivers.

VII. MORE INFORMATION

For more information about the College and its academic programs, please consult the *Curricular Guide*. Copies may be requested from the Louisiana Scholars' College, Northwestern State University, Natchitoches, Louisiana 71497-0002.

COURSES OF INSTRUCTION

Since its inception in the Fall of 1987, the Louisiana Scholars' College has regularly developed and offered new courses, many of them stimulated by student requests. A major grant from the National Endowment for the Humanities funded three summers of work for faculty to develop the Common Curriculum. For more information, contact the Director of the Louisiana Scholars' College.

The first figure in parentheses following each course title indicates the credit hour value of the course; the second figure indicates the number of 50-minute lecture periods the class meets per week in a regular semester; the third indicates the laboratory hours per week.

SANT 3890. DIRECTED STUDY IN ANTHROPOLOGY. (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.

SART 2000. SEMINAR IN ART. (4-4-0). Special topics in art announced each semester. May be repeated for credit as topics vary. Subtitle: Greek and Roman Art: A General Survey. An overview of the development of Greek and Roman art, organized to complement Texts and Traditions I.

- SART 3810. THE CLASSICAL TRADITION IN WESTERN ART.** (4-4-0). The classical tradition in art from early Greek civilization to its influence in contemporary works, with special attention to Late Antiquity, the Carolingian Renaissance, the Italian Renaissance of the fourteenth and fifteenth centuries, the Neo-classical movement of the eighteenth and nineteenth centuries, and the twentieth century.
- SART 3820. ROME: URBS AETERNA.** (3-1-4). Examination of the art and culture of Rome, from its beginnings to Mussolini's attempted resurgence. Includes a two-week stay in Rome, readings and research before departure, and completion of a research paper upon return.
- SART 3890. DIRECTED STUDY IN ART.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SBIO 3810. FORM AND FUNCTION IN BIOLOGICAL SYSTEMS.** (3-3-0). Seminar on relationships between anatomical structure, physiology, and adaptation in living organisms, including plants, invertebrates, and vertebrates. Satisfies the research seminar requirement for students in the Scientific Inquiry Concentration of the College. Prerequisite: two semesters of biological science or consent of instructor.
- SBIO 3820. COMPARATIVE NEUROBIOLOGY.** (4-3-2). Survey of basic neurophysiology, comparative and vertebrate functional neuroanatomy, neural development, and the neural basis of behavior. Prerequisite: two semesters of general biology or consent of instructor.
- SBIO 3880. DARWIN AND EVOLUTIONARY THEORY.** (3-3-0). Intensive readings and discussions of the major writings of Charles Darwin, with supplementary readings of other writers, including Lamarck, Wallace, Lyell, T. H. Huxley, and Spencer. Fulfills the Major Figure requirement for students in the Humanities and Social Thought Concentration and provides credit in Scientific Inquiry. Prerequisites: two semester sequence in general biology.
- SBIO 3890. DIRECTED STUDY IN BIOLOGY.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SBIO 4810. SEMINAR IN DEVELOPMENTAL BIOLOGY.** (3-3-0). A treatment of mechanisms underlying the ontogenetic organization of the major biological systems in animals, including molecular, cellular, and tissue-level processes. Satisfies the research seminar requirement for students in the Scientific Inquiry Concentration of the College. Prerequisites: two semester sequence in general biology and permission of instructor.
- SBUS 481T. THESIS RESEARCH: BUSINESS.** (3-0-0). Preparation of a senior thesis or project in business.
- SBUS 482T. THESIS RESEARCH: BUSINESS.** (3-0-0). Completion and presentation of a senior thesis or project in business.
- SCHM 3810. ORGANIC CHEMISTRY I.** (3-3-0). The first half of a one-year course. Preparation, properties, uses, and mode of reaction of representative aliphatic and aromatic compounds; halides, hydrocarbons, stereochemistry and spectroscopy. Prerequisite: 1820 and 1821 or SCPN 1840 and 1860; registration in or credit for 3811.
- SCHM 3811. ORGANIC CHEMISTRY LABORATORY I.** (2-0-4). Basic experiments in organic chemistry. Prerequisite: Registration in or credit for 3810.
- SCHM 3820. ORGANIC CHEMISTRY II.** (3-3-0). The second half of a one-year course. Preparation, properties, uses, and mode of reaction of aliphatic and aromatic compounds; emphasis on alcohols, aldehydes, ethers, ketones, amines, acids and their derivatives. Prerequisite: 3810 and 3811; registration in or credit for 3821.
- SCHM 3821. ORGANIC CHEMISTRY LABORATORY II.** (2-0-4). Continuation of 3811. Preparation and qualitative analysis of organic compounds. Prerequisite: registration in or credit for 3820.
- SCHM 3890. DIRECTED STUDY IN CHEMISTRY.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SCHM 4810. GENERAL BIOCHEMISTRY I.** (3-3-0). An introduction to the constituents of living matter: carbohydrates, lipids, proteins, nucleic acids, and enzymes. Prerequisites: 3820 and 3821; registration in or credit for 4811.
- SCHM 4811. GENERAL BIOCHEMISTRY LABORATORY I.** (1-0-3). An introduction to qualitative and quantitative biochemical laboratory techniques using modern biochemical instrumentation. Prerequisite: registration in or credit for 4810.

- SCHM 4820. GENERAL BIOCHEMISTRY II.** (3-3-0). A continuation of 4810. Important biochemical pathways: catabolism of carbohydrates, lipids, and proteins; anabolism of carbohydrates, lipids, proteins, and nucleic acids; their relationship to one another and the importance of each to the organism. Prerequisites: 4810 and 4811.
- SCHM 4890. CHEMISTRY SEMINAR.** (1-1-0). Research, reports, and discussions about current or historical issues in chemistry. May be repeated any number of times, but only two hours may be applied toward a degree. Prerequisite: junior standing and consent of instructor.
- SCLA 3810. THE COMIC MUSE: COMEDY AND SATIRE IN THE ANCIENT WORLD.** (4-4-0). The history, evolution, and interrelationship of comedy and satire in the Greco-Roman world. Includes several instances in which these forms are adopted or adapted in later periods. All works are read in English translation.
- SCPN 1830. PARADIGMS: BIOLOGY I.** (3-3-0). An integrated life science course, focusing on cell biology, basic metabolism, and organismal biology. Prerequisite: registration in or credit for 1831 and 1833.
- SCPN 1831. PARADIGMS: BIOLOGY LABORATORY I.** (1-0-3). Experiments in the life sciences to accompany 1830.
- SCPN 1840. PARADIGMS: CHEMISTRY I.** (3-3-0). An introduction to the general principles of chemistry, including atomic and molecular structure; chemical bonding, properties of gases, liquids, and solids; and oxidation-reduction reactions. Prerequisite: registration in or credit for 1841 and 1843.
- SCPN 1841. PARADIGMS: CHEMISTRY LABORATORY I.** (1-0-3). Laboratory experiments demonstrating the chemical principles presented in 1840. Corequisite: 1840. Pass/fail grade.
- SCPN 1850. PARADIGMS: BIOLOGY II.** (3-3-0). A continuation of 1830, focusing on organismal biology, Mendelian and molecular genetics, evolution, and ecology. Prerequisite: 1830 and registration in or credit for 1851 and 1853.
- SCPN 1851. PARADIGMS: BIOLOGY LABORATORY II.** (1-0-3). Experiments in the life sciences to accompany 1850.
- SCPN 1860. PARADIGMS: CHEMISTRY II.** (3-3-0). A continuation of 1840, focusing on chemical equilibrium, thermodynamics, kinetics, and nuclear chemistry. Prerequisite: 1840, 1841, and registration in or credit for 1861 and 1863.
- SCPN 1861. PARADIGMS: CHEMISTRY LABORATORY II.** (1-0-3). Laboratory experiments demonstrating the principles presented in 1860: identifying common inorganic ions, quantitative inorganic analysis, chemical equilibria and thermodynamics. Corequisite: 1860. Pass/fail grade.
- SCPN 1910. PARADIGMS OF NATURE: INTRODUCTION TO ECOLOGY I.** (3-3-0). An introduction to the ecological relationships between organisms and their environments at the ecosystem and community levels of organization. Topics include primary production and decomposition, migration and dispersal across landscapes, and food webs. Prerequisite: registration in or credit for 1911.
- SCPN 1911. PARADIGMS OF NATURE: ECOLOGY LABORATORY I.** (1-0-3). Laboratory experiments and field studies demonstrating the principles presented in SCPN 1910. Prerequisite: registration in or credit for 1910.
- SCPN 1920. PARADIGMS OF NATURE: INTRODUCTION TO ECOLOGY II.** (3-3-0). An introduction to the ecological relationships between organisms and their environments within populations, and evolution as an ecological process. Topics include demography, pollination ecology, and evolution through natural selection. Prerequisite: registration in or credit for 1921.
- SCPN 1921. PARADIGMS OF NATURE: INTRODUCTION TO ECOLOGY LABORATORY II.** Laboratory experiments and field studies demonstrating the principles presented in SCPN 1920. Prerequisite: registration in or credit for 1920.
- SCRT 181W. CRITICAL READING, CRITICAL WRITING.** (4-4-0). Exercise in verbal argument and analysis, in conjunction with the study of major writers, major thinkers, and significant cultural issues. Disciplines and topics vary; may be taken for credit only once.
- Subtitles:
- 01-Justice, Virtue, and the Good. A close study of ethical writings by Plato and Aristotle, emphasizing both moral ideas and philosophical reasoning: Plato's *Euthyphro*, *Gorgias*, and *Republic*, and Aristotle's *Nicomachean Ethics*.
- 02-Music in World Cultures. The study of music in its cultural context around the world, drawing on the perspectives of anthropology, musicology, and ethnomusicology. Weekly listening projects culminate in a final paper presenting the results of original field research on a topic chosen by the student.

- 03-Selfhood and Community. An inquiry into changing conceptions of the "self" and shifting relations between individuals and communities in the nineteenth and twentieth centuries.
- 04-Utopian Visions. Versions of perfection in utopian works written in Europe and America from the sixteenth century to the present—utopian perspectives on perfection, including those of Christian humanism, liberalism, socialism, aesthetic Marxism, and feminism. Examinations of contemporary assumptions about what is "natural" and possible in our own time and in the future.
- 05-Greek and Roman Art: A General Survey. An overview of the development of Greek and Roman art organized to complement the material presented in Texts and Traditions I.
- 06-Southern Fiction. An introduction to Southern fiction of the nineteenth and twentieth centuries, emphasizing literary analysis, but also examining social and historical contexts as well as the issues of race, class, and gender. Chopin, Faulkner, O'Connor, Welty, Percy, Hurston, Walker, among others.
- 07-Interdisciplinary Approaches to the Study of Gender. A team-taught, interdisciplinary course exploring gender relations through literature, art, history, sociology, and biology.
- 08-Perspectives in Anthropology. A study of ethnography, the ways anthropologists write about people and their cultures. Clifford Geertz's *Works and Live* serves as a core text. Additional reading includes ethnographies by Benedict, Evans-Pritchard, Feld, Levi-Strauss, and Malinowski.
- 09-Popular Culture in History. Examination of the political function and social sources of popular culture in Europe and America since 1600, with emphasis on the development of writing skill.
- 10-Physical Concepts of Time. Introduction to the study of time, as viewed from the perspectives of natural philosophy, mathematics, and modern physics. Zeno's paradoxes; relativity and block universe; "time's arrow" in thermodynamics and cosmology.
- 11-Writing About Film. A writing-intensive seminar offering an introduction to the vocabulary and perspectives of film criticism.
- 12-History and Philosophy of Natural Science. A writing-intensive seminar designed to help students understand how scientists think and why we know what we know. Students will be given a background in "scientific thought processes."
- 13-Writing about Literature: The Lost Generation. An introduction to college-level critical reading and writing skills through study of the literature of Americans and American expatriates between the World Wars.

SCSC 1810. MICROCOMPUTER APPLICATIONS I. (1-1-0). A microcomputer software course introducing word processing, data base, and spread sheet fundamentals for academic applications.

SCTT 1810. TEXTS AND TRADITIONS I: THE SHAPING OF WESTERN THOUGHT. (5-5-0). A close study of selections from the history of western thought, including major philosophical, scientific, literary, political, and artistic works. The ancient world; early myth, the Old Testament, classical antiquity; works by authors such as, Homer, Sophocles, Plato, Vergil, Juvenal, and others.

SCTT 1820. TEXTS AND TRADITIONS II: THE SHAPING OF WESTERN THOUGHT. (5-5-0). A continuation of 1810. The Middle Ages, the Renaissance, the seventeenth and early eighteenth centuries; works by authors such as Boethius, Dante, Machiavelli, Descartes, Galileo, Shakespeare, and others.

SCTT 2810. TEXTS AND TRADITIONS III: THE SHAPING OF WESTERN THOUGHT. (5-5-0). A continuation of 1820. The eighteenth and nineteenth centuries; works by authors such as Voltaire, Rousseau, Austen, Marx, Mill, Darwin, Dostoyevsky, Nietzsche, and others.

SCTT 2820. TEXTS AND TRADITIONS IV: THE SHAPING OF WESTERN THOUGHT. (5-5-0). A continuation of 2810. The twentieth century; works by authors such as Freud, Conrad, Weber, Woolf, Eliot, Levi-Strauss, Böll and others.

SCTT 3810. TEXTS AND TRADITIONS V, DEMOCRATIC VISTAS: THE IDEA OF AMERICA. (4-4-0). Major documents from the American cultural tradition, including works by Winthrop, Edwards, Franklin, Jefferson, Tocqueville, Hawthorne, Thoreau, Fuller, Dickinson, Mark Twain, Charles Ives, Jasper Johns, Faulkner, Toni Morrison, and others.

SCTT 4810. SENIOR COLLOQUIUM I. (2-2-0).

Subtitles:

01-Disease and social policy: The challenges of aids in the 1990s. A survey of the literary, historical, biomedical, psychological, sociological, and political dimensions of the AIDS epidemic.

- 02-Liberty and the First Amendment: A careful study of the First Amendment of the Bill of Rights, and of the Judiciary's continual struggle to balance the Amendment's guarantees against the community's interests.
- 03-Environmental Science, Environmental Policy: Local Issues and Global Concerns. An interdisciplinary analysis of the current environmental crisis, with a special focus on global warming, the structural and cultural roots of the crisis, environmental ethics and the environmental movement, and strategies for environmental improvement.
- 04-Issues in Education: This course will explore manifold historical and cultural issues that have helped determine the educational process as it exists today. Starting from an historical view of education in classical antiquity, it will examine issues in ancient education and follow this examination through the middle ages and Renaissance. The course will conclude by viewing education in the early stages in the United States.
- 05-Issues in Multiculturalism. An interdisciplinary analysis focusing on the major issues in multiculturalism, developing an academic framework for analyzing the inclusion or exclusion of multiculturalism in social science, humanities, science, mathematics and technology in both historical context and intellectual tradition.
- 06-Mediated Realities: the Media and National Values: An inquiry into the history, aesthetics, and consequences for individual values and public policy of selected media and their construction of social realities. Building on texts in the College's Common Curriculum, the Colloquium focuses on the role of contemporary media in informing or shaping the debate on values, social institutions, and government policies.
- 07-Crime and Punishment in the Modern World: An exploration of the proper relationship between crime and punishment, liberty, and social repression during the modern era and focusing on Europe and America.

SCTT 4820. SENIOR COLLOQUIUM II. (2-2-0).

Subtitles:

- 01-Disease and social policy: the Challenges of AIDS in the 1990s. A survey of the constitutional, moral, bioethical, international public health, and thanatological dimensions of the AIDS epidemic. A continuation of SCTT 4810.
- 02-Liberty and the First Amendment. A careful study of the First Amendment of the Bill of Rights, and of the judiciary's continual struggle to balance the Amendment's guarantees against the community's interests. A continuation of SCTT 4810.
- 03-Environmental Science, Environmental Policy: Local Issues and Global Concerns. An examination of several local and global environmental problems. A continuation of 4810.
- 04-Mediated Realities: the Media and National Values: An inquiry into the history, aesthetics, and consequences for individual values and public policy of selected media and their construction of social realities. Building on texts in the College's Common Curriculum, the Colloquium focuses on the role of contemporary media in informing or shaping the debate on values, social institutions, and government policies.
- 05-Crime and Punishment in the Modern World. An exploration of the proper relationship between crime and punishment, liberty and social repression during the modern era and focusing on Europe and America.

SECL 3800. RESEARCH SEMINAR IN ECOLOGY AND ENVIRONMENTAL SCIENCES. (3-1-4).

Subtitle:

- 01-Southern Appalachian Environs: Major ecological communities of the Great Smoky Mountains, the ridge and valley region on East Tennessee, and the Blue Ridge region of North Carolina and Georgia; and interactions between the environment and man, from early European settlement to the establishment of Great Smoky Mountains National Park and the Tennessee Valley Authority.

SECL 3890. DIRECTED STUDY IN ECOLOGY. (1-4-0-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when topic varies. Prerequisite: consent of instructor.

SECO 2810. AN INTRODUCTION TO ECONOMIC REASONING. (4-4-0). A survey of the historical evolution and current state of American economic theory and policy. The fundamentals of economic analysis, with application to a wide array of economic issues: government regulation of markets, income distribution, federal deficits, government stabilization policy, and America's position in the world economy.

- SECO 3810. POLITICAL ECONOMY OF NATIVE AMERICA.** (4-4-0). The major political documents, movements and writings involving Native America, Introduction to models of economic development, indigenous economies, and the dynamics of economic interaction between capitalist and indigenous economic systems. Prerequisite: 2810 or permission of instructor. (May not receive credit for both 3810 and 4810).
- SECO 3830. PAVED WITH GOLD: WEALTH AND POVERTY IN THE UNITED STATES.** (4-4-0). An inquiry into the causes and consequences of American wealth and poverty, emphasizing the intellectual origins of American individualism and of laissez faire economic practice. Topics covered include: current statistics on income distribution; political economy; the experience of immigrant minorities; chronic poverty; rural poverty; recent theory and policy debates.
- SECO 3890. DIRECTED STUDY IN ECONOMY.** (1-4-0-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when topic varies. Prerequisite: consent of instructor.
- SECO 4810. POLITICAL ECONOMY OF NATIVE AMERICA.** (4-4-0). The major political documents, movements and writings involving Native America, Introduction to models of economic development, indigenous economies, and the dynamics of economic interaction between capitalist and indigenous economic systems. Prerequisite: 2810 or permission of instructor. (May not receive credit for both 3810 and 4810)
- SECO 4830. PAVED WITH GOLD: WEALTH AND POVERTY IN THE UNITED STATES.** (4-4-0). An inquiry into the causes and consequences of American wealth and poverty, emphasizing the intellectual origins of American individualism and of laissez faire economic practice. Topics covered include: current statistics on income distribution; political economy; the experience of immigrant minorities; chronic poverty; rural poverty; recent theory and policy debates.
- SENG 2000. SEMINAR IN ENGLISH AND AMERICAN LITERATURE.** (4-4-0). Major figures, period studies, critical issues and problems. Topics announced each semester; may be repeated for credit as topics vary.
Subtitles:
- 01-Selfhood and Community in Nineteenth and Twentieth Century Writing. Fiction by Austen, Bronte, Conrad, Woolf, Faulkner, Lawrence, and others, in the context of cultural change. Cross-listed as "Critical Reading, Critical Writing"; see that heading for detailed description. Open as SENG 2000 only to students who have completed a different SCRT 181W section; such students will write fewer but more ambitious papers, and will meet in regular tutorials with the instructor.
 - 02-Finding the Lost Generation: British and American Writing in the Twenties. Focused on a pivotal moment in twentieth-century cultural history, the decade following the first World War, this course combines an exploration of literary modernism with an inquiry into certain fundamental problems of cultural theory. Works by Ford, Pound, Lawrence, Hemingway, Fitzgerald, Waugh, Graves, Eliot, Woolf, among others.
 - 03-Southern Fiction. An introduction to Southern fiction of the nineteenth and twentieth centuries. Open as SENG 2000 only to students who have completed a different SCRT 181W section.
 - 04-An Introduction to Film Criticism. An introduction to the vocabulary and perspectives of film criticism.
- SENG 2810. POETRY AND POETICS: AN INTRODUCTION.** (4-4-0). Introduction to the critical analysis of poetry through the close reading of individual poems from the sixteenth century to the present, as well as through the study of important works of literary criticism and theory.
- SENG 2880. CREATIVE WRITING I.** (3-3-0). Intensive practice in close reading and in writing poetry, short fiction, and essays. Prerequisite: credit for SCRT 181W and consent of instructor.
- SENG 3810. SHAKESPEARE.** (4-4-0). Study of representative plays by Shakespeare, including comedies, tragedies, and histories, illustrating the development of his style.
- SENG 3820. MILTON.** (4-4-0). A close reading of Milton's major works including *Paradise Lost*, selected shorter poems, and selected prose.
- SENG 3830. STUDIES IN THE SEVENTEENTH AND EIGHTEENTH CENTURIES.** (3-3-0). Various texts and topics from the late Renaissance through the Neo-Classical period. May be repeated for credit when topics vary. Prerequisite: consent of instructor.

SENG 3840. TOPICS IN LITERARY THEORY AND CRITICISM. (4-4-0). Intensive study of a major period, movement, or body of literary theory and criticism. May be repeated for credit as topic varies. Prerequisite: sophomore standing and completion of one 2000-level literature course.

Subtitles:

01-The "New Critical" Moment. An account of the central premises and practices of Anglo-American formalism, situating those practices in relation to historical and social developments in the years from 1910 to 1970. Combines scrutiny of theoretical pronouncements with exercises in the "close reading" of literary texts. Works by T.S. Eliot, I.A. Richards, John Crowe Ransom, F.R. Leavis, Rene Wellek, Lionel Trilling, Cleanth Brooks, Fredric Jameson, and others.

02-Film Theory and Criticism. An introduction to major theorists and critics of film, emphasizing established critical approaches and emerging theoretical understandings of film as art.

03-Criticism, Culture, and Ideology. A study of the relation between art and social power, considering whether literary texts are to be understood as autonomous objects, sponsoring a disinterested aesthetic experience, or as purposive social and rhetorical acts.

SENG 3850. THE COMIC NOVEL. (4-4-0). Intensive study of the comic tradition in English and American Fiction from the eighteenth century through the present. Prerequisite: junior standing or consent of the instructor.

SENG 3880. STUDY OF A MAJOR WRITER. (4-4-0). Study emphasizing representative works and critical responses to those works. May be repeated for credit as topic varies. Prerequisite: sophomore standing.

Subtitles:

01-James Joyce

02-Henry James

03-Jane Austen

04-Emily Dickinson

05-Joseph Conrad

06-Robert Frost

07-Charles Dickens

08-T.S. Eliot

09-Virginia Woolf

10-William Faulkner

11-Adrienne Rich

12-George Orwell

13-Kate Chopin

SENG 3890. DIRECTED STUDY IN ENGLISH. (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: Consent of instructor.

SENG 4880. INTENSIVE STUDY OF A MAJOR FIGURE. (4-4-0). Intensive study emphasizing representative works and critical responses to those works. May be repeated for credit as topic varies. Prerequisite: junior standing and at least one course at the junior level.

Subtitles:

01-James Joyce

02-Henry James

03-Jane Austen

04-Charles Dickens

05-Emily Dickinson

06-Joseph Conrad

07-Robert Frost

08-T.S. Eliot

09-Virginia Woolf

10-William Faulkner

11-Adrienne Rich

12-George Orwell

13-Kate Chopin

SFPA 481T. THESIS RESEARCH – FINE AND PERFORMING ARTS. (3-0-0). Preparation of a senior thesis or project in the fine and performing arts.

- SFPA 482T. THESIS – FINE AND PERFORMING ARTS.** (3-0-0). Completion and presentation of a senior thesis or project in the fine and performing arts. Prerequisite: 481T.
- SFRE 1810. FRENCH I.** (4-4-0). An introduction to French grammar, pronunciation, and vocabulary. Verb tenses: present, preterit, and imperfect. Development of cultural knowledge as well as skill in understanding, speaking, reading, and writing. Students practice in the language lab one hour per week.
- SFRE 2810. FRENCH II.** (4-4-0). A continuation of 1810 with emphasis on basic French. Students practice in the language lab one hour per week. Prerequisite: 1810 or consent of instructor.
- SFRE 2820. FRENCH III.** (4-4-0). An intensive study of French grammar and review of basic French. Reading, discussion, and writing are emphasized. Students practice in the language lab one hour per week. Prerequisite: 2810 or consent of instructor.
- SFRE 2830. FRENCH IV.** (3-3-0). An introduction to French literature and civilization. Discussion and writing are emphasized. Prerequisite: 2820 or consent of instructor.
- SFRE 2840. FRENCH CULTURE AND CONVERSATION.** (3-3-0). Designed to help students with their oral skills as well as introduce them to French social habits. Students watch and comment on short French documentaries. They also keep a listening log of outside assignments such as "En Francais" from PBS, French films, French radio, etc. Prerequisite: 2820.
- SFRE 3810. LE COMMENTAIRE DE TEXTES LITTÉRAIRES.** (3-3-0). Designed to teach students French literary analysis. Includes study of famous French works. Preparation for a more detailed study of French literature. Prerequisites: 1810, 2810, 2830, and consent of instructor.
- SFRE 3890. DIRECTED STUDY IN FRENCH.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SGER 1810. GERMAN I.** (4-4-0). An introduction to basic grammatical structures, pronunciation, and vocabulary, with emphasis on understanding, speaking, reading, and writing German. Students are required to attend language lab each week.
- SGER 2810. GERMAN II.** (4-4-0). A continuation of 1810. Prerequisite: 1810 or consent of instructor.
- SGER 2820. GERMAN III.** (4-4-0). A systematic review of the skills learned in 1810 and 2810, with an emphasis on the development of vocabulary and idioms through the use of literary texts. Prerequisite: 2810 or consent of instructor.
- SGER 2830. INTERMEDIATE GERMAN IV.** (3-3-0). A continuation of 2820. Prerequisite: 2820 or consent of instructor.
- SGER 3810. GERMAN LITERATURE: ROMANTICISM TO THE MODERN PERIOD.** (4-4-0). A survey of major movements and writers from Goethe to the present, within the context of German and European cultural and historical developments.
- SGER 3850. GERMAN CULTURE AND CIVILIZATION.** (3-3-0). Conducted in English. Historical, political, artistic, scientific, religious, social, and literary forces that have shaped the German state from the earliest time to the present.
- SGER 3890. DIRECTED STUDY IN GERMAN.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated once when the topic varies. Prerequisite: consent of instructor.
- SGLT 3810. 19TH CENTURY GERMAN LITERATURE IN TRANSLATION.** (3-3-0). From the dusk of Classicism, the darkness of Romanticism, to the dawn of Modernism, this period of German literature includes some of the greatest minds of Western civilization. The course will focus on the poetry, fiction, dramas and non-fiction of writers such as Goethe, Schiller, Heine, Hofmann, Nietzsche and Hauptmann. Student may not receive credit for both 3810 and 4810.
- SGLT 4810. 19TH CENTURY GERMAN LITERATURE IN TRANSLATION.** (3-3-0). From the dusk of Classicism, the darkness of Romanticism, to the dawn of Modernism, this period of German literature includes some of the greatest minds of Western civilization. The course will focus on the poetry, fiction, dramas and non-fiction of writers such as Goethe, Schiller, Heine, Hofmann, Nietzsche and Hauptmann. Student may not receive credit for both 4810 and 3810.
- SHIS 1010. GLOBAL HISTORY TO 1500.** (3-3-0). The history of the human community from prehistory (ca. 10,000 BCE) to 1500. The origins, development, and achievements, as well as the interrelations, of the major world civilizations will be discussed. Comparing the economic, cultural, and political experience of different societies will be an essential feature of the course.

- SHIS 2000. SEMINAR IN HISTORY.** (4-4-0). Special topics in history announced each semester. May be repeated for credit as topics vary.
Subtitles:
01-Utopian Visions. Versions of utopia from the 16th century to the present. Cross-listed as "Critical Reading, Critical Writing"; see that heading for detailed description. Open as SHIS 2000 only to students who have completed a different SCRT 181W section; such students will write fewer but more ambitious papers and will meet in regular tutorials with the instructor.
02-Popular Culture and Politics in Modern Europe: From Carnival to Rock Video. An exploration of the connections over the last three hundred years between the distribution of political power in particular societies and the ways that people have amused themselves (or have been amused). Emphasis is on primary materials—folk tales, song lyrics, advertisements (old and new), religious sermons and revelations, political cartoons, descriptions of popular festivals, riots, and murders.
- SHIS 2010. GLOBAL HISTORY SINCE 1500.** (3-3-0). The history of the human community from approximately 1500 to the present. The central question of the course is, What is modernity and how have peoples and societies of the globe changed during the past 500 years because of it.
- SHIS 3710. EUROPE 1800-PRESENT: ART AND POLITICS.** (4-4-0). Focusing particularly on the politics and art of the period.
- SHIS 3810. THE FRENCH REVOLUTION.** (4-4-0). Analysis of the causes of the Revolution and of its development after 1789, with emphasis on primary sources and opposing historical interpretations. Students will write a research essay.
- SHIS 3840. HISTORY OF RUSSIA SINCE 1861.** (3-3-0). Major issues in the economic, social, cultural, and political evolution of Russia from 1861 to the present. The course's objectives are to familiarize the student with these issues, give them a sense of the factors involved in historical change and causation, and sharpen their critical thinking and writing skills. Class time devoted to lecture, discussion, and film and slide screenings.
- SHIS 3880. MAJOR FIGURES IN HISTORY.** (4-4-0). Intensive study of the life and work of a major figure in history, emphasizing the individual's connection to his or her time, his or her influence since then, and the vagaries of reputation. Students will write a research essay. May be repeated for credit as topic varies. Prerequisite: junior standing or permission of instructor.
Subtitles:
01-Louis XIV
02-Rousseau
03-Napoleon
04-Gladstone
05-William Morris
06-Bismarck
07-Churchill
08-Rosa Luxembourg
09-Marx
10-Hitler
11-Keynes
- SHIS 3890. DIRECTED STUDY IN HISTORY.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SHIS 4710. EUROPE 1800-PRESENT: ART AND POLITICS.** (4-4-0). Focusing particularly on the politics and art of the period.
- SHIS 4840. HISTORY OF RUSSIA SINCE 1861.** (3-3-0). Major issues in the economic, social, cultural, and political evolution of Russia from 1861 to the present. The course's objectives are to familiarize the student with these issues, give them a sense of the factors involved in historical change and causation, and sharpen their critical thinking and writing skills. Class time devoted to lecture, discussion, and film and slide screenings.

- SHIS 4880. MAJOR FIGURES IN HISTORY.** (4-4-0). Intensive study of the life and work of a major figure in history, emphasizing the individual's connection to his or her time and his or her influence since then. May be repeated for credit as topic varies. Prerequisite: one 3000 level courses in the Humanities and Social Thought concentration of the College or the consent of the instructor.
Subtitles:
01-Louis XIV
02-Rousseau
03-Napoleon
04-Gladstone
05-Rousseau
06-Bismarck
07-Churchill
08-Rosa Luxembourg
09-Marx
10-Hitler.
- SHST 3810. ATHENS IN THE FIFTH CENTURY.** (4-4-0). An interdisciplinary study of Athens in the Fifth Century B.C.E. Students will study the rise and fall of this great power by looking through the eyes of such citizens as Aeschylus, Sophocles, Aristophanes, and Thucydides.
- SHST 3820. FEMINIST THEORY IN PRACTICE AND PROCESS.** (4-4-0). An examination of the theory and practice of women's studies. Course units focus on the status of women's studies as a discipline, difference as a central issue in feminist theory, the variety of feminisms, the relationship between feminist and other critical theories, and trends emerging from the practice of women's studies (e.g., the new "men's studies"). Prerequisite: junior standing or consent of instructor.
- SHUM 481T. THESIS RESEARCH – HUMANITIES AND SOCIAL THOUGHT.** (3-0-0). Preparation – independent research and preliminary writing – of a senior thesis or essay in the Humanities and Social Thought Concentration.
- SHUM 482T. THESIS – HUMANITIES AND SOCIAL THOUGHT.** (3-0-0). Completion of a senior thesis or essay in the Humanities and Social Thought Concentration. Prerequisite: 481T
- SIND 481T. THESIS RESEARCH – INDIVIDUAL CONCENTRATION.** (3-0-0). Preparation of a senior thesis or project on a topic which draws on several of the College's areas of concentration.
- SIND 482T. THESIS – INDIVIDUAL CONCENTRATION.** (3-0-0). Completion of a senior thesis or project on a topic which draws on several of the College's areas of Concentration. Prerequisite: 481T.
- SLSC 2000. INTERDISCIPLINARY SEMINAR.** (4-4-0). Sophomore seminars on special topics transcending disciplinary boundaries. May be repeated for credit as topics vary. Prerequisite: completion of SCRT 181W.
Subtitles:
01-Interdisciplinary Approaches to the Study of Gender. A team-taught, interdisciplinary course exploring gender relations through literature, art, history, sociology, and biology.
02-The Natural Philosophy of Time. Introduction to the study of time, as viewed from the perspectives of natural philosophy, mathematics, and modern physics. Zeno's paradoxes; relativity and the block universe; "time's arrow" in thermodynamics and cosmology.
- SLSC 3800. INTERDISCIPLINARY SEMINAR.** (1 to 4-1 to 4-0). Seminars on topics transcending disciplinary boundaries. May be repeated for credit as topics vary. Prerequisite: consent of instructor.
Subtitles:
01-The Literature of American Tropical Biology. The discovery and exploration of the New World tropics from explorers' myths of mermaids and cannibals to the theory of natural selection, and beyond to contemporary tropical ecology. Columbus and his successors, Darwin, Wallace, Bates, and Belt and evolutionary theory; modern tropical biologists, including Archie Carr, Alexander Skutch, and Daniel Janzen.
02-The Victorian Imagination: Class and Crisis (PS): Examination of English culture and society in the 19th century through various contemporary materials, especially novels, but including political discourse, social commentary, art, and architecture. Prerequisite: junior standing or consent of the instructor.
04-Contemporary Economic Issues. Current topics in the world economy, emphasizing the influence of social, cultural, and political factors. May be repeated for credit as topics vary.

05-The Harlem Renaissance Movement. Study of writers, musicians, artists, and political figures against their social and cultural background during the Harlem Renaissance of the 1920s and 1930s in New York City.

06-Musical Psychoacoustics. An introduction to the science of musical sound and its perception. After introductory sessions on the physics of sound and the physiology of hearing, the course will move into psychoacoustics per se by investigating human perceptions of pitch, loudness, etc. induced by pure tones and their combinations sounded both within and outside of musical contexts. Prerequisites: Completion of one semester of physical science or one semester of music theory, or permission of the instructor.

07-Western Intellectual Traditions. 300-1350. This course will focus on the formation of western European thought and learning in the period of 300-1350. It will situate this critical intellectual era in its historical context by studying the links and breaks with ancient thought on one side and early modern thought on the other.

SLSC 4800. SENIOR INTERDISCIPLINARY SEMINAR. (1-4-1-4-0). Seminars on topics transcending disciplinary boundaries. May be repeated for credit as topics vary. Prerequisite: senior status or consent of instructor.

Subtitle:

The Victorian Imagination: Class and Crisis (PS). Examination of English culture and society in the 19th Century through contemporary materials, especially novels, but including political discourse, social commentary, art, and architecture.

SLSC 4810. ART AND SCIENCE: A CROSS-DISCIPLINARY INVESTIGATION. (4-4-0). Aspects of the relationship between art and science: materials used in artistic endeavor, such as pigments from minerals, the components of bronze, and the clay used in pottery. Investigation of patterns and mathematical principles influencing art and architecture. Applications of natural principles in medicinal bathing and cartography.

SLTN 1810. LATIN I. (4-4-0). The fundamentals of Latin grammar and basic reading skills, including basic vocabulary, pronunciation, and syntax. Aspects of Roman culture and its tradition in the Western world.

SLTN 1810. LATIN II. (4-4-0). A continuation of 1810. Latin grammar and basic reading skills, including basic vocabulary, pronunciation, and syntax. Additional study of the Latin tradition. Prerequisite: credit for 1810 or consent of instructor.

SLTN 1820. LATIN III. (4-4-0). Introduction to Latin literature and advanced study of Latin grammar. Prerequisite: credit for 1810 or consent of instructor.

SLTN 2880. GREEK AND LATIN ELEMENTS IN ENGLISH. (3-3-0). An introduction to classical vocabulary, and to historical, linguistic, and grammatical relationships among the Greek, Latin, and English languages.

SLTN 2890. DIRECTED READINGS IN LATIN. (1 to 3-1 to 3-0). Selected works of Latin prose and poetry, such as Livy's *Ab urbe condita* and Vergil's *Aeneid*.

SLTN 3890. DIRECTED STUDY IN LATIN. (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.

SLTN 4810. ROMAN SATIRE. (4-4-0). The development of Roman satire and its impact on the western world. Includes readings from Lucilius, Horace, Persius, and Juvenal. Prerequisite: consent of instructor.

SMAT 1800. PRECALCULUS WORKSHOP. (1-1-2). For students who need work on a few (no more than three) areas of precalculus or algebra encountered in the core courses or for students who wish to build their confidence while taking calculus. Self-paced course with lectures and computer labs. Progress is determined by proficiency testing. Students may not receive credit for SMAT 1800 and either SMAT 1820 or SMAT 1850. Prerequisite: diagnostic examination.

SMAT 1820. PRECALULUS. (3-3-0). An in-depth treatment of algebra, trigonometry, and analysis topics used in calculus, along with the historical development of analysis. Students may not receive credit for both SMAT 1820 and SMAT 1800 or SMAT 1850.

SMAT 1830. INTRODUCTION TO PURE MATHEMATICS. (3-3-0). An introduction to mathematical logic and thought, classical problems in a variety of areas in pure mathematics, and a historical/cultural perspective of the topics covered. Topics include propositional logic, mathematical induction, number theory, group theory, sets, cardinality, and functions.

- SMAT 1840. TOPICS IN APPLIED MATHEMATICS.** (3-3-0). An introduction to mathematical topics and techniques incorporated in the core science courses; limited exposure to the central themes of calculus; elementary discrete probability; and interval arithmetic on the real numbers. Includes a historical/cultural perspective on the topics covered. Prerequisite: diagnostic examination.
- SMAT 2810. DIFFERENTIAL CALCULUS.** (5-5-0). A study of the concepts of functions, limits, continuity, and the derivative. Application of the derivative, antiderivative, and integration. Prerequisite: 1820, 1850, or a satisfactory score on the placement exam.
- SMAT 2820. INTEGRAL CALCULUS.** (5-5-0). A continuation of 2810. A study of integrals, conics, transcendental functions, techniques of integration, parametric equations, improper integrals, and applications. Prerequisite: 2810 or consent of instructor.
- SMAT 3810. MULTIVARIABLE CALCULUS.** (3-3-0). Infinite series topics in vector calculus, and differential equations. Prerequisite: 2820 or consent of instructor.
- SMAT 3830. DIFFERENTIAL EQUATIONS.** (3-3-0). Solving ordinary differential equations, including linear differential equations, solution by series, Laplace transforms, and applications. Prerequisite: 2820.
- SMAT 3850. PRINCIPLES OF MATHEMATICAL MODELING.** (3-3-0). Developing, parameterizing, analyzing, and interpreting mathematical models of real-world problems in the biological, physical, and social sciences. Emphasis on mathematical models as investigative tools, model formulation, and interpretation of results. Prerequisite: 2810, 2820 or 10 hours of calculus.
- SMAT 3890. DIRECTED STUDY IN MATHEMATICS.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SMUS 2000. MUSIC IN THE MODERN WORLD: ISSUES AND APPROACHES.** (4-4-0). An examination of modern musical practice and meaning, beginning with Western popular music and including music identified with West Africa, Asia, Papua New Guinea, and Latin America. The course will focus on ways to address the complexities of music in contemporary contexts. Prerequisites: SCRT 181W or permission of instructor.
- SOR 1010. SCHOLARS' COLLEGE ORIENTATION.** (1-1-0). A required course introducing all incoming students to University life and to the Louisiana Scholars' College: history and traditions, requirements, regulations, academic strategies, career planning, and University resources.
- SPHI 2000. SEMINAR IN PHILOSOPHY.** (4-4-0). Special topics in philosophy announced each semester. May be repeated for credit as topics vary.
 Subtitle:
 Moral Theory. An introduction to Eudaimonism, the ancient moral theory based on the premise that all people do pursue, and indeed should pursue, happiness (i.e. "eudaimonia"). Selected works by Plato and Aristotle as well as other, more contemporary works (such as *Habits of the Heart*) to get a clear sense of the contrast between ancient moral reasoning and our own. The course also serves as a thorough introduction to ancient philosophy in general.
- SPHI 2820. INTRODUCTION TO ETHICS.** (3 to 4-3 to 4-0). An introduction to ethical theories, including formalism and consequentialism, as well as to practical applications of those theories.
- SPHI 2830. ANCIENT PHILOSOPHY.** (4-4-0). A historical survey beginning with the Presocratic and concluding in the Hellenistic period. Includes such representative thinkers as Heraclitus, Parmenides, Socrates, Plato, Aristotle, and Sextus Empiricus.
- SPHI 2840. MEDIEVAL AND EARLY MODERN PHILOSOPHY.** (4-4-0). A historical survey beginning with the Middle Ages and concluding in the modern period. Includes such representative thinkers as Anselm, Aquinas, Descartes, and Locke.
- SPHI 2850. THE RELIGIOUS PHILOSOPHIES OF INDIA AND CHINA.** (4-4-0). An introduction to the major philosophico-religious texts of India and China, including the *Upanishads*, the *Bhagavadgita*, *The Laws of Manu*, and *Analects*, and the *Tao Te Ching*.
- SPHI 2860. PHILOSOPHIES OF CHRISTIANITY.** (4-4-0). Survey of the historical and philosophical development of Christianity, emphasizing the philosophical theologies of St. Augustine, St. Thomas Aquinas, the Protestant Reformers, Kierkegaard, and others. Prerequisite: sophomore standing.
- SPHI 3810. MODERN PHILOSOPHY.** (4-4-0). A historical survey beginning with the rationalists and including such thinkers as Descartes, Leibniz, Hobbes, Locke, Berkeley, Hume, Kant, and Hegel. Prerequisite: Sophomore standing.

- SPHI 3830. AMERICAN PHILOSOPHY.** (4-4-0). Intensive readings in and discussions of the writings of six major thinkers from the "Golden Age" of American philosophy: Pierce, James, Royce, Santayana, Dewey, and Whitehead. Prerequisite: three hours of philosophy and sophomore standing.
- SPHI 3880. STUDY OF A MAJOR PHILOSOPHER.** (4-4-0). Intensive study of a major philosopher, emphasizing representative works and critical responses to those works. May be repeated for credit as topic varies. Prerequisite: sophomore standing.
Subtitles:
(01) Plato
(02) Aristotle
(03) Aquinas
(04) Descartes
(05) Locke
(06) Hume
(07) Kant
(08) Hegel
(09) Nietzsche
(10) Whitehead
(11) William James
- SPHI 3890. DIRECTED STUDY IN PHILOSOPHY.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SPHI 4880. STUDY OF A MAJOR PHILOSOPHER.** (4-4-0). Intensive study of a major philosopher, emphasizing representative works and critical responses to those works. May be repeated for credit as topic varies. Prerequisite: junior standing and at least one course at the junior level.
Subtitles:
(01) Plato
(02) Aristotle
(03) Aquinas
(04) Descartes
(05) Locke
(06) Hume
(07) Kant
(08) Hegel
(09) Nietzsche
(10) Whitehead
(11) William James
- SSCI 2010. SCIENCE SEMINAR I.** (1-1-0). Small group discussions of selected readings by and about scientists and science. This first semester emphasizes oral expression in addition to writing skills. Prerequisites: credit for SCRT 181W and credit for or enrollment in one of the following: SCPN 1830, 1840, 1910, 1920, PHYS 2030, or 2510.
- SSCI 2020. SCIENCE SEMINAR II.** (1-1-0). Small group discussions of selected readings by and about scientists and science. This second semester considers oral expression and writing skills to be important. Prerequisites: credit for SSCI 2010 and credit for or enrollment in one of the following: SCPN 1830, 1840, 1850, 1860, 1910, 1920, PHYS 2030, 2040, 2510, or 2520.
- SSCI 2030. SCIENCE SEMINAR III.** (1-1-0). Small group discussions of selected readings by and about scientists and science. This last semester emphasizes writing skills in addition to oral expression. Prerequisites: credit for SSCI 2020 and credit for or enrollment in one of the following: SCPN 1830, 1840, 1850, 1860, 1910, 1920, PHYS 2030, 2040, 2510, or 2520.
- SSCI 481T. THESIS RESEARCH – SCIENTIFIC INQUIRY.** (3-0-0). Independent research and preliminary writing of a senior thesis in mathematics or the sciences.
- SSCI 482T. THESIS – SCIENTIFIC INQUIRY.** (3-0-0). Completion of a senior thesis in mathematics or the sciences. Prerequisite: 481T.
- SSOT 2830. TECHNOLOGY, POLITICS, AND SOCIETY.** (4-4-0). An examination of new and emerging theoretical perspectives on technology within the discipline of sociology. Fulfills the Theory and Method requirement in Humanities and Social Thought.

- SSOT 3810. GENDER AND CONTEMPORARY SOCIETY.** (4-4-0). Examination of the social bases of gender construction, with emphasis on the ways in which contemporary institutions in industrial societies produce or reinforce gender inequality.
- SSOT 3820. THE SOCIOLOGY OF FAMILIES.** (4-4-0). An examination of the concept and structure of family in Western societies. Emphasis is on competing theoretical paradigms for understanding diverse family forms, and on the sociohistory of family formation (and reformation) from courtship through divorce.
- SSOT 3860. QUALITATIVE RESEARCH METHODS.** (4-4-0). Introduction to qualitative research methods in the social sciences. Emphasis on symbolic anthropology, historical sociology, phenomenology, content analysis, the tools and techniques of field work and ethnography, and research ethics and responsibilities. Prerequisite: junior standing or consent of instructor.
- SSOT 3890. DIRECTED STUDY IN SOCIAL THOUGHT.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated once when the topic varies. Prerequisite: consent of instructor.
- SSOT 4820. THE SOCIOLOGY OF FAMILIES.** (4-4-0). An examination of the concept and structure of family in Western societies. Emphasis is on competing theoretical paradigms for understanding diverse family forms, and on the sociohistory of family formation (and reformation) from courtship through divorce.
- SSPN 1810. SPANISH I.** (4-4-0). An introduction to Spanish grammar, pronunciation, and vocabulary. The course seeks to develop a knowledge of Spanish culture as well as skill in understanding, speaking, reading, and writing. Students practice in the language lab one hour per week.
- SSPN 2810. SPANISH II.** (4-4-0). A continuation of 1810, emphasizing basic grammar including the past tenses, the future, and the conditional. Students practice in the language lab one hour per week. Prerequisite: 1810 or consent of instructor.
- SSPN 2820. SPANISH III.** (4-4-0). A comprehensive review of Spanish grammar, reading, discussion, and writing, and an introduction to Spanish and Latin American culture. Students practice in the language lab one hour per week. Prerequisite: 2810 or consent of instructor.
- SSPN 2830. SPANISH IV.** (3-3-0). A thorough introduction to Hispanic literature and civilization. Prerequisite: 2820 or consent of instructor.
- SSPN 3890. DIRECTED STUDY IN SPANISH.** (1 to 4-1 to 4-0). Supervised independent study on a topic not normally covered in regular course offerings. May be repeated when the topic varies. Prerequisite: consent of instructor.
- SSTA 2810. APPLIED STATISTICS.** (3-3-0). Introduction to descriptive and inferential statistics with an emphasis on applications. Includes practice using statistical software to solve applications. Prerequisite: SMAT 1820 or 1840, or consent of instructor.

GRADUATE STUDIES

Thomas Hanson, Dean of Graduate Studies and Research

ADMINISTRATION: The Dean of Graduate Studies and Research and the Graduate Council supervise graduate study at Northwestern State University. All correspondence should be addressed to the Office of the Dean.

ADMISSION TO GRADUATE STUDY

No applicant for admission to Northwestern State University shall be denied admission on the basis of sex, race, creed, or national origin.

Application is made to the Registrar. Entry fee should accompany the application. A lapse in enrollment of 12 calendar months, or more, will require reapplication and payment of additional entry fee.

Admission to graduate study does not imply admission to any specific degree program.

Graduate students are responsible for reading and following the regulations and requirements of the Graduate School.

REQUIREMENTS FOR ADMISSION TO GRADUATE STUDY INCLUDE:

1. Bachelor's degree from a regionally accredited college or university;
2. Application on file prior to registration;
3. Official transcripts on file prior to registration; and
4. Graduate Record Examination (GRE) scores, as required, on file prior to registration.

Graduate students intending to pursue a degree program must furnish official transcripts from each college or university attended. Non-degree graduate students must furnish an official transcript from the institution granting the highest degree and a letter of good standing from the last institution attended. The GRE is not required for non-degree students.

All students applying for entry or re-entry to graduate study at Northwestern must be eligible to return to their former institutions to be considered for admission to Northwestern. No credit will be granted to a student by Northwestern for work done while suspended or dismissed from any institution.

Northwestern does not award graduate credits for portfolio-based experiential learning.

Non-degree students meeting the requirements listed above may continue to enroll for graduate credit. No more than nine semester hours of graduate credit earned as a non-degree student may be subsequently applied toward a graduate degree program.

PROVISIONAL ADMISSION FOR UNDERGRADUATE STUDENTS. An undergraduate student, registered for graduation, who has a 3.0 quality point average on all work pursued, and who lacks no more than nine semester hours (six in a summer session) for the completion of the baccalaureate degree may register for a maximum of six semester hours (four in a summer session) of graduate credit IN COURSES NUMBERED BELOW 5000, provided the total load during the semester shall not exceed 15 semester hours (ten in a summer session) and the student shall have obtained **PRIOR** approval from the Dean of Graduate Studies and Research, and the head of each department involved. Failure to receive a bachelor's degree after one semester will result in the voiding of graduate credit.

INTERNATIONAL STUDENTS: For admission to graduate study, international students must present to Northwestern State University an evaluation of their educational credentials by a United States professional evaluating service. International students must also meet all requirements for regular admission given above. In addition, an official copy of results of one of the following must be submitted: (1) the **Test of English as a Foreign Language (TOEFL)** with a minimum score of 550; or (2) the **American Language Institute at Georgetown University English Proficiency Test (ALL/GU EPT)** with a minimum score of 250. The Dean of Graduate Studies and Research may waive this requirement for foreign students in instances where English is the native language. All admission records must be on file at least 30 days prior to the date of registration. Foreign students are admitted to a degree program only on conditional status but must meet all the requirements given above to achieve and maintain regular status.

CONCURRENT REGISTRATION

A graduate student registered at Northwestern may not receive degree credit at Northwestern for any work taken concurrently at another college or university without prior approval of the student's academic advisor and the Dean of Graduate Studies and Research. Any degree-seeking Northwestern graduate student who wishes to take courses at another college or university during a summer session, or during a regular semester when not enrolled at Northwestern, must also obtain prior approval of the advisor and the Dean of Graduate Studies and Research.

It is the responsibility of each graduate student pursuing continuing enrollment at Northwestern to submit to the Office of the Dean of Graduate Studies and Research an official transcript of work pursued elsewhere. Northwestern will not grant credit for course work taken by a student during any period of time in which the student is suspended or dismissed from any college or university.

THE MASTER'S DEGREE

ADMISSION TO MASTER'S DEGREE PROGRAMS

REGULAR ADMISSION to a master's degree program includes the following requirements:

1. Bachelor's degree from a regionally accredited college or university;
2. Minimum 2.5 quality point average on all undergraduate hours pursued (minimum of 3.0 quality point average for Nursing);
3. Undergraduate prerequisites for the degree to be pursued;
4. GRE scores prescribed for the degree to be pursued; and
5. Special requirements of the department for the degree to be pursued.

PROVISIONAL ADMISSION to a master's degree program may be granted for one semester for students whose records, including GRE scores, have not been received. Psychology applicants must have on file scores on the GRE aptitude test, to be considered for provisional admission.

Failure to remove provisional status after one semester will result in suspension from any degree program and reclassification to non-degree status. Upon submitting all required records, a student may later be admitted conditionally or regularly to a degree program, provided all requirements are met.

CONDITIONAL ADMISSION to a master's degree program (other than the Master of Science in Nursing and Master of Education in Physical Education and concentrations in Sports Administration and Health Promotion) may be granted for one semester, or for the first 12 semester hours, of approved graduate study for either students whose GRE score is 600 or more, but less than the required minimum of 800 (900 for Psychology), or students whose undergraduate quality point average is 2.0 or better, but less than 2.5 (excepting Nursing and Physical Education, and concentrations in Sports Administration and Health Promotion). Conditional admission to a master's degree program in Nursing may be granted for students whose GRE score is 750 or more, but less than the required minimum of 900 or students whose undergraduate quality point average is 2.5 or better, but less than 3.0. Conditional admission to a master's degree program in Physical Education and concentrations in Sports Administration and Health Promotions may be granted for students whose GRE scores are at least 750 but less than the required minimum of 800 and an undergraduate GPA of 3.0. Students are required to schedule an interview with members of the graduate faculty in the Department of Health and Human Performance.

Conditional status in a master's degree program may be changed to regular status by earning 12 semester hours of approved graduate degree credit at Northwestern State University with a grade of B or better on all graduate work pursued.

Failure to achieve regular status after 12 graduate semester hours will result in suspension from any master's degree program. Reinstatement will require:

1. A lapse of five years during which no degree credit may be earned;
2. Re-admission and completion of 12 additional semester hours of approved degree credit at Northwestern State University with no grade lower than B; and
3. Approval of the Dean of Graduate Studies and Research and the Graduate Council. If reinstated, failure to maintain regular status will result in terminal suspension. Only approved degree credit courses will be computed in the grade average.

REQUIREMENTS FOR THE MASTER'S DEGREE

When a student is admitted to graduate study for the master's degree, the head of the college/department in which the student plans to major will appoint an advisor who will assist the student in preparing a tentative program of studies. Upon the recommendation of the advisor, the Dean of Graduate Studies and Research will appoint an advisory committee composed of the student's advisor and two other graduate faculty members; members of the student's committee will represent the principal fields of study to be included in the degree program. A degree plan must be prepared by the student and the committee, meeting together, during the student's first semester of full-time enrollment, or prior to the completion of nine semester hours of credit in part-time enrollment; this plan and any modifications to it require the approval of the Graduate Dean.

GENERAL DEGREE REQUIREMENTS. The minimum credit requirement for the master's degree is 30 semester hours of graduate work, not more than six of which may be allowed for the thesis course and the completion of a thesis. If a student does not write a thesis, he/she must complete at least six

semester hours of courses which require special research procedures and formal written research reports except for certain programs in which the student, with the permission of his/her committee, may elect to complete a minimum of 33 semester hours of graduate credit including at least three semester hours in a course which requires special research procedures and a formal written research report. At least one-half of the courses taken, including one-half of those in the major field, must be courses open only to graduate students.

The graduate program must include a major area of concentration of not less than 18 semester hours. Programs leading to the Master of Education must include at least 12 semester hours in education and 12 semester hours outside the field of education. For secondary teachers the 12 semester hours must be in a single field¹; for elementary teachers this credit may be distributed among several fields.

An average of not less than B on all graduate work pursued, with no grade lower than C and not more than six hours of credit with a grade of C, shall be presented to fulfill the course requirements for the degree. No grade below B is acceptable for transfer credit.

A course with a grade of Pass may not be used to satisfy a course requirement for a graduate degree.

RETENTION. The student must comply with provisions cited under "Eligibility to Remain in Graduate School."

COMPREHENSIVE EXAMINATION. The student must pass a comprehensive final examination – oral or written, or both – which will include a defense of the thesis, if a thesis is written.

THESIS OR PROJECT IN LIEU. Two copies of the thesis and one additional copy of an abstract (not exceeding 350 words) must be filed with the Dean of Graduate Studies and Research. If the student does not write a thesis, copies of major investigative reports must be approved by the Graduate Dean and the director of the report and filed in the office of the head of the student's major department. A paper in lieu of thesis must be over and beyond the regular requirements of the course in which the paper is written.

ADMISSION TO CANDIDACY FOR THE MASTER'S DEGREE. To be eligible for admission to candidacy for the master's degree, a student must:

1. Have achieved regular status;
2. Have a degree plan approved;
3. Have completed a minimum of 12 semester hours of graduate work at Northwestern State University;
4. Have earned a B average on all graduate work pursued.

The final decision for admission to candidacy is by vote of the Graduate Council, upon the recommendation of the student's committee and with the approval of the Graduate Dean.

After being eligible for admission to candidacy, a student must earn at least six semester hours of graduate credit or complete a thesis at Northwestern State University.

TIME LIMIT. All work applied toward the degree must have been earned in the six years immediately preceding the completion of the graduate program. In special cases, upon approval of the Dean of Graduate Studies and Research, expired credits may be revalidated by examination.

TRANSFERRED CREDITS MAY NOT BE REVALIDATED. The examination must be a written test, must measure those topics currently taught in the course and must be evaluated as if the student had just completed the course. The student's written examination paper must be filed in the Graduate School office. Test construction and evaluation will be done by the instructor who is currently teaching the course or who has most recently taught the course. Revalidation will be on a satisfactory/unsatisfactory basis. For grade point average purposes, the initial grade will be utilized. Requests for revalidation must be initiated in writing by the student's Graduate Committee and submitted to the Graduate School for approval. The cost of revalidation is \$20 a course and must be paid and the receipt on file in the Graduate School office prior to taking the test.

RESIDENCE REQUIREMENT. At least two-thirds of the hours required for a master's degree must be earned in residence at Northwestern. The additional hours required for the degree may be transferred from another institution provided the institution, including its Graduate School, is regionally accredited, the grade earned is B or above, and the credits are accepted as applicable to the student's degree program.

APPLICATION FOR GRADUATION. A candidate for the Master's degree must file with the Dean of Graduate Studies and Research an application for graduation at the beginning of the semester or summer session in which he/she expects to complete degree requirements.

SECOND MASTER'S DEGREE. A student seeking a second master's degree may be allowed to apply from a previous graduate degree a maximum of one-half the credits required for the second degree.

¹With the exception of Educational Leadership.

THE SPECIALIST IN EDUCATION DEGREE

The purpose of the Specialist in Education degree is to provide a plan of organized advanced study for practitioners in the field of education who wish to develop a higher level of competency. The program makes possible greater depth of specialization than is offered at the master's level, and each program of study is designed to meet the specific and unique needs of a particular professional position.

ADMISSION TO THE SPECIALIST'S DEGREE PROGRAM

To be considered for admission to a program leading to the Specialist in Education degree, an applicant must:

1. Hold a master's degree from a regionally accredited college or university and have a grade point average of at least 3.0 on all graduate work pursued;
2. File an application with the Dean of Graduate Studies and Research;
3. Have completed at least three years of successful, full-time teaching to be eligible to take the qualifying examination;
4. Present two letters of recommendation from appropriate school and/or college officials;
5. Submit satisfactory scores on the Aptitude Test of the Graduate Record Examination. A minimum combined score of 800 on the Verbal and Quantitative parts of the Aptitude Test is required. Conditional admission may be granted for one semester, or for the first 12 semester hours, of approved graduate study for students whose combined Verbal and Quantitative score is 600 or more, but less than 800.
6. Take a qualifying examination.

QUALIFYING EXAMINATION. Each student must take a qualifying examination prior to the approval of a degree program.

REQUIREMENTS FOR THE SPECIALIST'S DEGREE

When a student is admitted to graduate study for the Specialist in Education degree, the Dean of the College of Education will appoint an advisor who will assist the student in preparing a tentative program of studies. Upon the recommendation of the advisor, the Dean of Graduate Studies and Research will appoint an advisory committee composed of the student's advisor and three other graduate faculty members; members of the student's committee will represent the principal fields of study to be included in the degree program. After the student has taken the qualifying examination, the committee must approve a degree program for the student following completion of nine semester hours of credit beyond the master's degree before the student may register for additional work toward the Specialist in Education degree. This plan and any modifications to it require the approval of the Dean of Graduate Studies and Research.

GENERAL DEGREE REQUIREMENTS. Degree candidates must complete a unified program of at least 60 semester hours of graduate credit above the bachelor's degree, including a minimum of 30 semester hours in addition to master's degree requirements. A minimum of 36 semester hours of credit must be earned in courses open only to graduate students.

For classroom teachers, the degree program must include a minimum of 24 semester hours of credit in professional education, 24 semester hours of credit in the teaching field(s) of the student, and an additional 12 semester hours to be selected to meet the specific needs of the student.

For school-service personnel, the degree is planned to meet the peculiar and special requirements for each type of position.

An acceptable thesis or field study in the student's area of specialization is required. The thesis requirement may be met at either the Master's or Specialist's level.

A comprehensive examination, written, oral, or both, will be required of each degree candidate.

A student must earn a minimum average of B (3.0) on all graduate work attempted. No course in which a grade lower than B is received may be included as part of the 30 semester hours required beyond the master's degree.

A course with a grade of Pass may not be used to satisfy a course requirement for a graduate degree.

RETENTION. The student must comply with the provisions cited under "Eligibility to Remain in Graduate School."

SPECIAL DEGREE REQUIREMENTS. For each degree plan the department involved designates specific courses which must be included in the program.

ADMISSION TO CANDIDACY FOR THE SPECIALIST'S DEGREE. To be eligible for admission to candidacy for the specialist's degree, a student must:

1. Have been admitted officially to the program;
2. Have a degree plan approved;
3. Have completed a minimum of 12 semester hours of graduate work, beyond the master's degree, at Northwestern State University;
4. Have earned a B average on all graduate work pursued.

The final decision for admission to candidacy is by vote of the Graduate Council, upon the recommendation of the student's committee and with the approval of the Graduate Dean.

After becoming eligible for admission to candidacy, a student must earn at least six semester hours of graduate credit or complete a thesis at Northwestern State University, if a thesis was not completed at the master's level.

RESIDENCE REQUIREMENT. The minimum residence requirement is one semester or two consecutive summer sessions of full-time study beyond the master's degree on the Natchitoches campus after a degree program has been approved.

TRANSFER AND/OR EXTENSION CREDIT. A maximum of nine semester hours of graduate credit earned in extension courses offered by Northwestern State University and/or resident courses pursued at a regularly accredited college or university may be included as part of the required 30 semester hours beyond the master's degree.

TIME LIMITATION. All work beyond the master's degree which is to be applied to requirements for the Ed.S. degree must be completed within six calendar years.

APPLICATION FOR GRADUATION. A candidate for the Specialist in Education degree must file with the Dean of Graduate Studies and Research an application for graduation at the beginning of the semester or summer session in which he or she expects to complete degree requirements.

Theses and Problems in Lieu of Thesis

The Graduate School at Northwestern State University requires a thesis or a problem in lieu of thesis for a master's degree, and a thesis or field study for a specialist's degree. The requirements and procedures for these papers are prescribed by the Graduate Council, and the individual academic department or college. Research options vary among the individual degree programs. It is the responsibility of the student, working with the advisory committee, to meet fully the research requirements for the specific degree pursued.

Human subjects. All research having to do with the collection of data from human subjects requires prior approval from the Committee for the Protection of Human Subjects in Research.

Enrollment. After the first enrollment for the thesis, the student is required to maintain continuous enrollment until the final paper is approved. Maximum credit to be granted is six semester hours for the thesis. Problems in lieu of thesis should be completed during the semester of enrollment for the particular course.

Number of copies. The Graduate School requires two copies of a thesis, or one copy of a problem in lieu of thesis. The student's major department or college may require additional copies.

Paper. Copies should be on white bond paper of 20 pound substance and at least 50 per cent cotton fiber content. All pages of each copy must be prepared on the same brand of paper.

Typing format. A type face no smaller than twelve characters per inch should be used. Script type is not acceptable except for italics. Word processor type must be of "letter quality," with a regular right margin, and with no irregular spacing of words or letters within the text. All pages of each copy must be prepared on the same typing or printer device.

Ribbon or toner cartridge. Black ribbon or black laser printer toner must be used.

Page format. The text must be double spaced, and on one side of the paper only. Margins must be one and one-half inches on the left edge, and one inch on the remaining three edges. Headings, pagination, citations, etc., should conform to the style manual selected by the students' major department or college.

Reproduction. Copies may be printed—offset or litho-print, or electronically reproduced by xerography, laser printer, or other process of equal quality. Proof of quality of reproduction of all pages of each copy is the responsibility of the student.

Style manual. An authoritative style manual is to be followed with consistency in the preparation of the paper. The manual selected must be acceptable to the student's advisory committee, the academic department or college, and the Graduate Council. In no instance should another thesis or problem in lieu of thesis be used as an authority for style.

Appendices, Illustrations, and Attachments. Appendices which cannot be bound with the text (e.g., magnetic tapes, art works, films, or materials to be put in cover board pockets) must be included in the table of contents. Maps or plates to be bound with the text must be submitted rolled, not folded, and in mailing tubes marked with the student's name. Graphs, tables, and illustrations should be in a form as permanent and suitable for reproduction as the typed portion of the text.

Abstracts. An abstract for the thesis must be prepared, approved by the major professor, and filed with the paper in the office of the Dean of Graduate Studies and Research. Abstracts are not required for problems in lieu of thesis.

The thesis abstract must be **double spaced** and must contain no more than 350 words in the body, excluding the general heading. The general heading for the abstract should conform to the following examples:

Thesis

Jones, James William, B.S., Atlantis University, 1985
 Master of Science, Northwestern State University, Fall (or Spring) Commencement 1995
 Major: Government; Minor: Economics
 "The Functions of the Equalization Fund in Six Southern States"
 Thesis directed by Professor John I. Blank
 Pages in thesis, 194. Words in abstract, 231.

Submittal. Each copy of the completed and approved thesis is to be submitted to the Dean of Graduate Studies and Research in a separate filing envelope and arranged in exact page order for binding. Each envelope shall have attached to it a copy of the title page, and the indication of original copy or of the copy number. After the Graduate Dean approves the thesis and signs the signature page, the original will be copied and inserted. The student is solely responsible for the correctness of the manuscript. The student must present the finished work to the Graduate Dean's office in person. The student should also complete exit survey forms at this time.

Deadlines. Two approved copies of the thesis and one additional copy of the abstract must be submitted to the Dean of Graduate Studies and Research no later than two weeks prior to the expected date of graduation.

The student should check the current calendar of the Graduate School for the exact dates of deadlines for submittal of theses and problems in lieu of thesis.

Binding fees. When final copies are filed, the student should pay to the cashier an amount sufficient to cover binding expense. The receipt for the fees should be filed with the Graduate Dean's office along with the completed copies. Binding fees include the cost of each copy bound as well as additional fees for special treatment, if any. Theses of more than 400 pages will be bound in more than one volume, and multiple binding fees will be charged. In such cases, the writer must provide a title page for each volume, display the volume number directly under the title, and indicate the volume division in the table of contents which must be placed in the beginning of the first volume.

COURSE LOAD

During a regular semester, a full-time student takes a course load of nine to 16 semester hours; during a summer session, a full load is six to nine semester hours. The maximum course load of a student may be reduced at the discretion of the major professor. Except in the case of an unusually able student, a course load of six semester hours is the maximum for which a graduate student may register in a summer session if he/she is writing a research paper in lieu of a thesis; also a student will normally be expected to devote more time than a full summer session to the preparation of a research paper in lieu of a thesis.

Grades and Quality Points

GRADES: Students are graded in their studies on the quality of work. Five grades are in use, as follows: A (excellent), B (good), C (average), D (below average), and F (failure). A course with a grade of Pass or a grade of D may not be used to satisfy a course requirement for a graduate degree.

A grade of I (Incomplete) means that course work is incomplete due to circumstances beyond the control of the student and that successful completion of this work could lead to a passing grade. A grade of IP means that work in a research or thesis course is incomplete, but in progress. Except for thesis courses or those courses in which the student is writing a formal research report in lieu of a thesis, incomplete grades must be removed within 60 calendar days after the end of the term in which the grade was assigned. If the work is not completed within the allotted time, the grade of I will be changed to F.

If a student earns more than six hours in thesis the student's transcript will provide only six hours of grades for thesis. All other IP grades will remain IP on the transcript. The student's thesis director, the Graduate Dean, and the Registrar will determine which six hours of IP will be changed to the letter grade assigned by the thesis director when the thesis is satisfactorily completed.

A student who repeats a course which he/she has successfully completed must accept the last grade received as final.

W represents an official withdrawal from the course.

QUALITY POINTS. In addition to earning credit hours for courses satisfactorily completed, students earn quality points according to the semester grades they make in the courses pursued. The following table is used in computing quality points:

- Grade A yields four points for each semester hour of credit represented.
- Grade B yields three points for each semester hour of credit represented.
- Grade C yields two points for each semester hour of credit represented.
- Grade D yields one point for each semester hour of credit represented.
- Grade F yields no graduate credit.

Transcripts of Credit

Any person who has earned credit may obtain a certified copy of his/her record, provided he/she is clear with all departments of the University. A student's record is not clear with the Graduate School until all admission requirements have been met.

Grade Appeal

Graduate students who receive grades they believe do not reflect the quality of their work may appeal these grades within 120 calendar days following the academic period in which the grades were earned. The procedure for appeal is as follows:

1. The student should consult the instructor to see if an understanding can be reached. The student is entitled to an explanation as to how the grade was determined and to examine any tests, papers, or other information pertinent to the appeal.
2. If the conference is not satisfactory, the student should secure a Grade Appeal Form from the office of the Dean of Graduate Studies and Research. The student may discuss the appeal informally with the Dean if the student so desires.
3. In filing a formal appeal, the student should complete the appeal form, stating the nature of the appeal, providing a detailed description of the justification, and requesting a specific action. Since the written appeal will be the basis for the ultimate decision, the student should ensure that it is clear, complete, and inclusive of all documentation the student wishes to have considered in the appeal process. It is the student's responsibility to present written evidence that the instructor made an error or acted arbitrarily or capriciously in assigning the grade.
4. The student should submit the completed appeal form to the instructor for review. If a solution is not found, the instructor should provide a written response to the student's appeal, providing documentation as to how the grade was determined. The instructor's response should include a copy of the course outline or syllabus provided to the student's class at the beginning of the semester or term.
5. After having met with the instructor and obtaining his or her written response to the appeal, the student may submit the form to the head of the department in which the course was offered (or to the dean of the college if the course was offered in the College of Business, Education, or Nursing). Following a review of the student's appeal and the instructor's response, the department head (or dean of the college) should provide his or her written opinion of the appeal along with any additional, pertinent information.
6. If the student is unsatisfied with the opinion of the department head (or dean of the college), he or she may submit the appeal to the Dean of Graduate Studies and Research. The Dean may make a decision, which would be final in the matter, or refer the appeal to a subcommittee of the Council on Admission, Credits, and Graduation for review and recommendation. The subcommittee's report would be a recommendation to the Dean of Graduate Studies and Research, whose decision would be final. The Dean will notify the student of the decision.

Semester Examinations

Final examinations are scheduled at the end of each regular semester and summer session. Any departure from the published examination schedule requires the prior approval of the Provost and Vice President for Academic Affairs.

No student may be excused from a final examination. Absence from a final examination, other than in a case of extreme emergency, is construed and recorded as failure in the course.

ELIGIBILITY TO REMAIN IN THE GRADUATE SCHOOL

A student whose graduate cumulative average or semester average falls below 3.0 on a 4.0 scale shall be placed on probation. Probation status will be retained so long as the cumulative grade-point average is below 3.0.

A student on probation who fails to make a minimum average of 3.0 on a 4.0 scale during the next semester or summer session of enrollment shall be suspended. The first suspension is for one full academic session and the second is for one calendar year.

Upon suspension from graduate studies a student may appeal for readmission on probation by submitting to his/her advisor a letter addressed to the Dean of Graduate Studies and Research. The advisor, after consulting with the other members of the student's graduate committee, is to append a written recommendation and forward it with the letter to the Graduate Dean, who makes the final decision.

A student on probation with two previous suspensions who does not make a 3.0 on all hours attempted for the semester will be dismissed. Such dismissal is a final action.

Graduate Assistantships

Graduate assistantships are available for highly qualified graduate students. To be eligible for a graduate assistantship, the student must be accepted in a graduate degree program and must have achieved regular graduate admission status at Northwestern State University. The minimum credit course load for graduate assistants is nine GRADUATE semester hours (six in the summer term). To be eligible to retain the assistantship, the student must maintain a B average in all graduate courses, receive a satisfactory performance evaluation, and meet all other stated requirements of the Graduate School. Out-of-state tuition, if applicable, may be waived for graduate assistants.

Stipends for graduate assistants are determined based on student grade point averages and scores on the general Graduate Record Examination. Applications for assistantships should be directed to the head of the college/department of the student's major field of study or the Dean of Graduate Studies and Research.

Graduate Student Housing Information

Facilities and Services

Specific floors in dormitories have been set aside for graduate students and are available on a 12 month basis. All dormitories are air conditioned and have telephone services. Parking is available outside the residence hall and controlled by University Police. Coin operated washing machines and dryers are located in the laundry rooms.

General Information

The rooms in the residence halls are furnished with two single beds, two closets, desk and shelf space for each resident. The student will need sheets, blankets, bedspread for a single bed, pillows, towels, wash cloths, and personal grooming items. Except for small tropical fish tanks, no pets are allowed.

For More Information Contact

Coordinator of Housing, NSU, Natchitoches, LA 71497-0002 Phone (318) 357-6703.

COURSES OF INSTRUCTION

The following is a list of all courses of instruction offered by the various departments at NSU at the time of this catalog's publication. Every effort is made to be as accurate and complete as possible. Courses are listed alphabetically by subject.

Courses numbered 5000 or above are open to graduate students only.

The titles of courses which may be taken to meet core requirements are underlined.

The first figure in parentheses following each course title indicates the credit hour value of the course; the second figure indicates the number of 50-minute lecture periods the class meets per week in a regular semester; the third indicates the laboratory hours per week.

LECTURE AND LABORATORY COURSES

Each lecture course and related laboratory course is a combination taught as a unit; the two courses must be taken concurrently. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other. No student may use as part of his or her degree requirement a lecture course without the corresponding laboratory course (if one is available for that course) or a laboratory course without the corresponding lecture course, unless otherwise stated in the course description.

ACADEMIC SKILLS (ACSK)

For Undergraduates Only

- 1010. STUDY SKILLS IMPROVEMENT.** (1-1-0). Study skills and test-taking techniques necessary for college success.

ACCOUNTING (ACCT)

For Undergraduates Only

- 2000. FINANCIAL ACCOUNTING.** (3-3-0). Introduction to financial accounting for business entities. Analysis of business transactions; recording and reporting principles; income measurement and asset valuation for financial reporting. Prerequisite: Mathematics 1020 and English 1010.
- 2010. MANAGERIAL ACCOUNTING.** (3-3-0). Cost accounting principles and systems, planning, budgeting, and control systems; analytical uses of accounting information for decision making. Not available as an elective for accounting majors. Prerequisite: 2000.
- 2020. PRINCIPLES OF PERSONAL INCOME TAX.** (3-3-0). A procedure oriented course designed to enable an individual to determine their tax liability. Does not meet requirements for the Bachelor of Science degree in Accounting
- 3050. GOVERNMENTAL ACCOUNTING.** (3-3-0). Accounting theory and practice applied to governmental units, state operated schools and colleges; classification and use of funds; fiscal procedures; budgetary control; financial statements; reports. Prerequisite: six hours of accounting.
- 3060. INCOME TAXES.** (3-3-0). Federal income taxation: emphasis is on accounting and taxation concepts as they relate to individuals. This course provides the foundation for further study, either through research or formal study. Prerequisite 2000.
- 3080. COST ACCOUNTING.** (3-3-0). Cost control of industries; job order and process cost systems. Prerequisite: 2000.
- 3100. NATURAL RESOURCES ACCOUNTING AND TAXATION.** (3-3-0). Terminology; lease agreements; production activities; revenue, operating cost, and reporting problems; natural resources rights and conveyances of natural resources properties, and sharing arrangements. Prerequisite: 3060.
- 3180. INTERMEDIATE ACCOUNTING I.** (3-3-0). In-depth study of financial accounting theory and problems, with emphasis on asset valuation on the balance sheet. Prerequisite: 2000.
- 3190. INTERMEDIATE ACCOUNTING II.** (3-3-0). A continuation of 3180 with special emphasis on liabilities, stockholders equity, and introduction to the income statement. Prerequisite: 3180.
- 3200. INTERMEDIATE ACCOUNTING III.** (3-3-0). An intensive study of the theory and methods of accounting and reporting for such topics as pensions, leases, cash flows, analysis of errors and changes, full disclosure, and ethical considerations. Prerequisite: 3180.
- 4020. ADVANCED ACCOUNTING.** (3-3-0). Problems related to partnerships, branches, consolidations, foreign exchange, estates and trust, consignments, installment sales and other topics. Prerequisite: 3190 or 3200.

- 4080. AUDITING.** (3-3-0). Problems encountered by practicing public accountant; types of audits; ethics of profession; preparation of auditor's working papers and reports. Prerequisite: 3190 or 3200.
- 4130. ADVANCED COST ACCOUNTING.** (3-3-0). Standard cost; setting standards; analysis of variances. Prerequisite: 3080.
- 4140. CORPORATION INCOME TAXES.** (3-3-0). Federal tax principles with emphasis on the corporation, estates, trust, and gift laws. Prerequisite: 3060.
- 4150. ACCOUNTING THEORY.** (3-3-0). Nature and theory of accounting; concepts and principles underlying financial statements and their presentation. Prerequisite: 3190 or 3200.
- 4200. STATEMENT ANALYSIS.** (3-3-0). Comparative analysis of financial statements; information processing and reporting for the purpose of understanding accounting information. Emphasizes the concepts associated with compilations and review services performed in accordance with generally accepted accounting principles. Prerequisite: 3180 or 3190.
- 4260. ACCOUNTING SYSTEMS.** (3-3-0). Design and implementation of accounting systems; utilization of electronic data processing. Prerequisite: 3080 and 3180.

AGRICULTURE (AGRI)

For Undergraduates Only

- 1040. INTRODUCTORY ANIMAL SCIENCE.** (3-3-0). Modern animal agriculture; problems of breeding, feeding, management, and marketing.
- 1050. INTRODUCTORY PLANT SCIENCE.** (3-3-0). Morphological, physiological, and reproductive features of higher plants; important agriculture plants of the U.S. and the world.
- 3030. GENETICS.** (3-3-0). Principles of genetics and their relationship to plant and animal breeding.

ALLIED HEALTH (ALHE)

For Undergraduates Only

- 1010. ALLIED HEALTH ORIENTATION.** (1-1-0). Allied health specialties. Medical ethics and jurisprudence.
- 1020. MEDICAL TERMINOLOGY.** (2-2-0). Breaking down and defining common medical terms used in effective communication. (Same as Veterinary Technology 1020).
- 4710. HEALTH CARE ETHICS AND LAW.** (3-3-0). Understanding medical law and ethics, types of law, state and federal regulations, health care professional liability, consented procedures, legal obligations, patient rights, labor relations, hospital reorganization, risk management, procedures, policies, and documentation.
- 4810. HEALTH CARE MANAGEMENT.** (3-3-0). Planning, organizing and budgetary control of a radiology department. Factors that provide a foundation for management practice. Methods, benefits, impact of recommendations for performance evaluation.

ANIMAL SCIENCE (ASCI)

For Undergraduates Only

- 2120. FUNDAMENTALS OF LIVESTOCK JUDGING.** (1-1-0). Origin and characteristics of the leading breeds of beef cattle, sheep, swine, and horses; breed types; comparative judging of representative animals. Prerequisite: registration in or credit for 2121.
- 2121. FUNDAMENTALS OF LIVESTOCK JUDGING LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 2120.
- 2950. SPECIAL PROBLEMS IN ANIMAL SCIENCE.** (1 to 3-0-0). Integrated lecture demonstration and laboratory. Students may enroll in different areas of concentration for a maximum of three semester hours of credit to be applied toward a degree. Prerequisite: approval of the instructor. Area of concentration is identified as follows:
- 01-artificial breeding, reproduction
 - 02-genetics
 - 03-health
 - 04-judging
 - 05-laboratory techniques
 - 06-marketing, management
 - 07-production

- 3040. DISEASES OF FARM ANIMALS.** (3-3-0). Causative agents, prevention, diagnosis and treatment. Prerequisite: Agriculture 1040; Veterinary Technology 2090-2091, or consent of instructor.
- 4110. POULTRY INTERNSHIP.** (1 to 9-0-5-to 45). Administrative; personnel; accounting; hatchery; layers; grow out; first processing; further processing; quality assurance; and sales and marketing. Prerequisite: be majoring in Business Administration (poultry management minor); 30 semester hours of college work; permission from Dean of Science and Technology.
- 4950. SPECIAL PROBLEMS IN ANIMAL SCIENCE.** (1 to 4-1 to 4-0). Library, field and laboratory problems. Written report and/or departmental seminar presentation required. Students may enroll in different areas of concentration for a maximum of 9 semester hours of credit to be applied toward a degree. Area of concentration is identified as follows:
- 01-animal care and health
 - 02-judging techniques
 - 03-livestock processing
 - 04-meat operations
 - 05-nutrition and feeding
 - 06-production methods
 - 07-reproduction
 - 08-selection and evaluation.
- Prerequisite: Senior standing or graduate student with nine hours of agricultural sciences and consent of instructor.

For Undergraduates and Graduates

- 3060. PRINCIPLES OF ANIMAL NUTRITION.** (3-3-0). Digestion, absorption, utilization, chemical composition values of nutrients. Prerequisite: four hours of general chemistry and three to four hours of organic chemistry.
- 4150. ANIMAL BREEDING.** (3-3-0). Basic genetic principles in livestock breeding and selection; use of heritability estimates, inbreeding and crossbreeding. Prerequisite: Agriculture 1040; three hours of genetics; senior standing or consent of instructor.

ANTHROPOLOGY (ANTH)

For Undergraduates Only

- 1510. THE WAYS OF MANKIND: AN ANTHROPOLOGICAL PERSPECTIVE.** (3-3-0). Nature and mechanism of culture. How cultures are organized and work on a world-wide basis. Cultural systems of communication, kinship, technology, religion and magic.
- 2010. ORIGIN OF CULTURES: AN INTRODUCTION TO HUMAN PREHISTORY.** (3-3-0). An introduction to the origin and development of the hominids and of culture.
- 2020. GENERAL ANTHROPOLOGY.** (3-3-0). An introduction to basic cultural anthropology: on language and culture, social structures, and applied anthropology.
- 3050. BIOLOGICAL ANTHROPOLOGY.** (3-3-0). Survey of human evolution and biological variation, including basic osteology and forensic aspects of anthropology. Prerequisites: 2010 or Biology 1010, 1011 and 1020, 1021.
- 4200. FIELD TECHNIQUES IN UNDERWATER ARCHAEOLOGY.** (3-3-0). An overview of methods used in underwater archaeology, including: archaeological survey and remote sensing, underwater site recording and excavation, preliminary artifact conservation, and laboratory analysis. Prerequisites: 3020, or consent of instructor, and open water diving certification.

For Undergraduates and Graduates

- 3020. PRINCIPLES OF ARCHAEOLOGY.** (3-3-0). Concepts and methods; archaeology in the social sciences; problems in North American prehistory. Prerequisite: 2010 or consent of instructor.
- 3030. THE NORTH AMERICAN INDIAN.** (3-3-0). Ethnology of the Indian tribes of the U.S. and Canada; major culture areas at the time of European contact; contemporary social and economic conditions. Prerequisite: junior standing.
- 3040. INDIANS OF THE SOUTHEASTERN UNITED STATES.** (3-3-0). Ethnology of major Indian tribes; Indians of Louisiana and their neighbors. Prerequisite: junior standing.
- 3060. NORTH AMERICAN PREHISTORY.** (3-3-0). Survey of North American Prehistory focusing on prehistoric cultural diversity, social and technological developments, and environmental adaptation in the major culture areas of the continent. Prerequisite: 2010, 2020, or permission of instructor.

- 3110. **PRINCIPLES OF ETHNOLOGY.** (3-3-0). Concepts and methods of studying contemporary folk cultures; ethnological approaches to types of cultural expression such as mythology and folklore, arts and crafts, kinship systems, architecture, music. Prerequisite: 2020 or consent of instructor.
- 3200. **HUNTER-GATHERERS: A CONTEMPORARY GLOBAL PERSPECTIVE.** (3-3-0). An ecological approach to Hunter-Gatherer adaptations. will be placed on settlement-subsistence strategies in a variety of environmental settings, on social organization and on cosmology. Prerequisite: 2010, 2020, or permission of instructor.
- 4060. **SPECIAL PROBLEMS.** (3-3-0). Prerequisite: minor in anthropology, senior standing, consent of instructor.
- 4080. **ANTHROPOLOGICAL THEORY.** (3-3-0). Development of ethnological thought in its historical context. Prerequisite: senior standing and 12 semester hours in anthropology.
- 4100. **FIELD PROBLEMS IN ARCHAEOLOGY.** (6-1-10). Techniques and materials of archaeological excavation; field surveying and recording, care and interpretation of material; field work in Louisiana. Prerequisite: 2010, 3020, and junior standing.
- 4110. **HISTORIC SITE ARCHAEOLOGY AND DEVELOPMENT.** (6-1-10). Techniques and skills using archaeological methods on documented sites: site preservation and development, active excavations, restoration and other field work (archival modeling) to be expected. Prerequisite: 2010, 3020, or permission of instructor.
- 4120. **CULTURAL RESOURCES MANAGEMENT.** (3-3-0). The study of the development of cultural and historical resources, with on resource evaluation, reporting, and development. Legislative and legal guidelines now govern such activities and this course will equip students with such applied information. Prerequisite: six hours of anthropology above the 2000 level or permission of instructor.
- 4130. **MUSEUM AND HISTORIC SITE DEVELOPMENT.** (3-3-0). Designing and administering small museums. Theory, design, and funding of public museums and developmental programs. Prerequisite: 3020 or any upper-level history class with permission of instructor.
- 4140. **HISTORICAL ARCHAEOLOGY: SURVEY AND METHODS.** (3-3-0). An overview of the development of the archaeology of historic sites, its theory and method. on North America and the Caribbean. Prerequisite: 2010, 3020, History 2010 and/or 2020, or permission of instructor.
- 4150. **HISTORY OF ARCHAEOLOGICAL THOUGHT.** (3-3-0). An introduction to the major theoretical trends in archaeological interpretation from a chronological perspective. Prerequisite: 2010, 2020, 3020 or consent of instructor.
- 4160. **FUNDAMENTALS OF LINGUISTICS.** (3-3-0). A course in descriptive linguistics including historical, geographical, and structural linguistics. (Same as English 4110).

For Graduates Only

- 5010. **SEMINAR IN ANTHROPOLOGY.** (3-3-0). Reading and research on topics.
- 5030. **HERITAGE RESOURCE ADMINISTRATION.** (3-3-0). Basic administrative methods as they apply to heritage resource management. on program planning, budgeting and implementation. Prerequisite: 4120 or permission of instructor.
- 5720. **HISTORY, THEORY, AND PRACTICE OF PUBLIC FOLKLORE.** (3-3-0). Examines applied folklore projects in national, state, and regional contexts while encouraging students to develop expertise to specific areas of public folklore. Prerequisite: 3110, or English 4670. (Same as English 5720).

ART (ART)

For Undergraduates Only

- ¹1010. **DESIGN I.** (3-1-4). Foundation for all arts through theory and application of two-dimensional creative expression; media and materials, demonstrations, discussions, lectures. Open to all students.
- ¹1020. **DESIGN II.** (3-1-4). Individual expression through three-dimensional techniques (assemblage, modeling, elementary casting, carving); experimentation with materials to solve three-dimensional problems (wood, wire, plastic, plaster clay, light metal). Prerequisite: 1010 or consent of instructor.
- ¹1060. **DRAWING I.** (3-1-4). Understanding visual organization and structure expression by delineation and modeling; drawing media.
- ¹1070. **DRAWING II.** (3-1-4). Continuation of 1060.

- ~1110. **ADVERTISING DESIGN I.** (3-1-4). Basic advertising tools and techniques involving design principles, page layout and typography.
- ~1120. **ADVERTISING DESIGN II.** (3-1-4). Typography, styles, and measurements; letter forms; digital imaging, and an introduction to various layout and graphic programs. Prerequisite: 1110.
- 1220. **ART HISTORY I.** (3-3-0). Prehistoric through medieval art.
- ~1230. **ART HISTORY II.** (3-3-0). Renaissance through contemporary trends.
- 2000. **CERAMICS I.** (3-1-4). Elementary ceramic design; hand-building and wheel-throwing of pottery; decoration, glazing, and firing. Prerequisite: 1010, 1020, or consent of instructor.
- 2010. **PAINTING I.** (3-1-4). Problems of design and representation; development of pictorial composition through techniques and media for visual expression. Prerequisite: 1010, 1060 or consent of instructor.
- 2020. **DRAWING III.** (3-1-4). Individual creative expression in still-life and landscape studies. Prerequisite: 1070.
- 2040. **ART EDUCATION I.** (3-1-4). Laboratory experience with media and techniques for elementary grades; educational implications and associated problems.
- 2050. **PAINTING II.** (3-1-4). Watercolor painting, transparent watercolor techniques. Prerequisite: 1010 or consent of instructor.
- 2060. **CERAMICS II.** (3-1-4). Techniques of mold making, casting, ceramic sculpture; clays and glazes, their working and firing characteristics; kiln operation. Prerequisite: 2000.
- 2070. **CRAFTS I.** (3-1-4). Crafts, beginning level. Prerequisite: Consent of instructor.
- ~2090. **GRAPHICS I.** (3-1-4). Basic printmaking techniques; woodcut, collagraph, silkscreen, etching, engraving. Prerequisite: 1010 or consent of instructor.
- 2100. **ADVERTISING DESIGN III.** (3-1-4). Experience with various computer applications in the production of typography, graphic layouts and image manipulation. Prerequisite: 1120.
- ~2110. **ADVERTISING DESIGN IV.** (3-1-4). Continuation of 2100.
- 3000. **CERAMICS III.** (3-0-6). Continuation of 2060. Prerequisite: 2060.
- 3010. **PAINTING III.** (3-1-4). Advanced problems in pictorial organization in oils, watercolor, lacquers; media and methods for stimulating individual expression. Prerequisite: 2010.
- 3020. **DRAWING IV.** (3-1-4). Varied media with advanced problems and experimentation with drawing materials. Prerequisite: 2020.
- 3040. **ART EDUCATION II.** (3-1-4). Children's art and its relationship to their healthy mental, emotional and creative growth; media and methods of stimulation at various stages of development; problems of evaluation.
- ~3100. **ADVERTISING DESIGN V.** (3-1-4). Refined production and assembly of work for presentation in a professional portfolio. Prerequisite: 2110 or consent of instructor.
- 3110. **SCULPTURE I.** (3-1-4). Theory and techniques of sculpture; plaster modeling, bronze and aluminum casting, welded forms, wood carving and constructions. Prerequisite: 1020 or consent of instructor.
- 3120. **SCULPTURE II.** (3-1-4). Continuation of 3110.
- ~3210. **PAINTING IV.** (3-1-4). Advanced problems in pictorial organization in oils; experimentation with visual forms for individual expression. Prerequisite: 3010 or consent of instructor.
- ~3250. **PAINTING V.** (3-1-4). Advanced problems in pictorial organization in acrylic media; currently acceptable standards of stylization. Prerequisite: 3210.
- 3260. **CERAMICS IV.** (3-1-4). Advanced form, original glaze formulation; kiln operation. Prerequisite: 3000.
- 3500. **GRAPHICS II.** (3-1-4). Emphasizing one medium specializing in color techniques. Prerequisite: 2090.
- 4000. **GRAPHICS III.** (3-1-4). Emphasizing advanced technical processes. Prerequisite: 3500.
- 4240. **ART EDUCATION IV.** (3-1-6). Materials and techniques for teaching art in elementary and secondary schools. Open only to art education majors.

¹ Minimum grade of C required of art majors.

For Undergraduates and Graduates

- ~4030. **ADVANCED STUDIO PROBLEMS.** (3-1-4). Work with a member of the faculty in advanced studio problems. May be repeated for six hours credit toward a graduate degree or nine hours toward an undergraduate degree when topic varies. All art, advertising design, and art education students must take Art 4030 the last semester of senior year to satisfy senior exhibition requirements. Prerequisite: junior standing, six hours in art.

- 4100. **HISTORY OF MODERN ART.** (3-3-0). History of art from the rise of Modernism in the nineteenth century through its evolution in Europe and America to present. Theories of art history and seminal writings are explored.
- 4110. **PROBLEMS IN CRAFTS I.** (3-1-4). Advanced experience in the design and construction of various craft projects. May be repeated for a total of six hours credit when topic varies. Prerequisite: six hours of art.
- 4120. **SCULPTURE III.** (3-1-4). Continuation of 3120.
- 4130. **ADVANCED PAINTING I.** (3-1-4). Exploring the creative process and idea development in painting media. Prerequisite: 2010, 3250, or consent of instructor.
- 4140. **PAINTING AND DRAWING FOR TEACHERS I.** (3-1-4). Painting and drawing procedures, media, and techniques adaptable to teaching in elementary and secondary grades. Prerequisite: 2040 or 4040 or consent of instructor. Not open to art majors.
- 4180. **PHOTOMECHANICAL DESIGN.** (3-1-4). Process photographic and photomechanical techniques. Emphasis on design, technique, and computer applications. Prerequisite: Photography 1050 or consent of instructor.
- 4220. **GRAPHICS IV.** (3-1-4). Advanced print-making, personal experimentation with mixed media appropriate to individual pursuits. Refinement of technical competence and proficiency. Prerequisite: 2090.
- ✓ 4400. **COMMERCIAL ART.** (3-1-4). Planning and execution of a complete design project such as web-site design, multimedia design, computer graphics, illustration of sequential art. Prerequisite: Art 3100 or consent of instructor.
- 4450. **ADVANCED WATERCOLOR.** (3-1-4). Further experimentation with watercolor as a medium. Prerequisite: 2050 and consent of instructor.
- 4460. **CERAMICS V.** (3-1-4). Clays, glazes, computation, and measurements. Prerequisite: consent of instructor.
- 4600. **ART FOR TEACHERS.** (3-1-4). Studio art problems designed for teachers. Prerequisite: 2040.

¹ If six hours are to be taken during one semester, they must be divided between two areas of study. May be repeated for a maximum of nine semester hours. Only six semester hours may be applied toward graduate degree credit.

For Graduates Only

- 5010. **ADVANCED PAINTING II.** (3 to 6-1-4). Contemporary trends; research and laboratory practice in painting problems. Prerequisite: 3010, 3250, or equivalent.
- 5080. **PROBLEMS IN DESIGN.** (3 to 6-1-4). Work in design-related subjects. Prerequisite: consent of instructor.
- 5110. **PROBLEMS IN CRAFTS II.** (3-1-4). Craft activities selected in consultation with the instructor. May be repeated for a total of nine hours credit when topic varies. For art majors only. Prerequisite: 4110.
- 5130. **SCULPTURE IV.** (3 to 6-1-4). Exploration in a specialized direction of personal significance. Prerequisite: 4120 or equivalent.
- 5220. **GRAPHICS V.** (3 to 6-1-4). Exploration in a specialized direction of personal significance. Prerequisite: 4220 or equivalent.
- 5240. **PROBLEMS IN ART.** (3-1-4). Advanced studio problems. Students must meet with instructor to approve specific problem in writing prior to registration. May be repeated for nine hours credit toward a degree when topic varies. Prerequisite: graduate art major.
- 5460. **RESEARCH IN ART HISTORY.** (3 to 6-1-4). Research in art history. Prerequisite: consent of instructor.
- 5900. **SEMINAR.** (3-3-0). Discussion of contemporary trends and developments in art; investigation of studio or theoretical problems.
- 5950. **RESEARCH IN ART.** (3 to 6-3-0). Research techniques and their application in visual arts; preparation of prospectus.
- 5980. **THESIS.** (3 to 6-3-0).

AVIATION SCIENCE (AVIS)

For Undergraduates Only

Ground Instruction

- 1010. **INTRODUCTION TO AVIATION.** (1-1-0). Specific information concerning scholastic resources, study skills, academic requirements, academic and intellectual content, job opportunities, academic advising, scholarship, and employment opportunities.

- 1020. INTRODUCTION TO AVIATION-AEROSPACE.** (3-3-0). History of aviation; the aviation-aerospace industry; aviation-aerospace and society; career field; organizations; space projects and rocketry. May not be used to fulfill requirements for aviation science degree.
- 1050. PRIVATE PILOT GROUND INSTRUCTION.** (3-3-0). Principles of flight; airplane systems and instruments; weight and balance; aircraft performance, federal aviation publications; federal aviation regulations; physiology of flight. Preparation for Federal Aviation Administration written examination.
- 1060. PRIVATE PILOT GROUND INSTRUCTION.** (3-3-0). Meteorology; air traffic control and communications; airman's information manual; flight computer, basic navigation, radio navigation. Preparation for FAA written examination.
- 2050. COMMERCIAL PILOT GROUND INSTRUCTION.** (3-3-0). Advanced principles of flight, aircraft systems, navigation, federal aviation regulations. Prerequisite: 1050 or consent of instructor.
- 2500. AIRCRAFT DISPATCHING.** (3-1-5). Supervised practice and training in aircraft dispatching responsibilities and procedures. Prerequisite: consent of instructor.
- 3000. COMMERCIAL PILOT GROUND INSTRUCTION.** (3-3-0). Continuation of 2050. Preparatory for the FAA commercial pilot written examination. Prerequisite: 2050 or consent of instructor.
- 3040. METEOROLOGY.** (3-3-0). Principles of weather. Weather, moisture, stability, turbulence, clouds, fronts, thunderstorms, air masses, icing. Aviation weather services; weather forecasts, weather charts, weather observation. Supplement weather; high altitude, tropical, arctic.
- 4100. INSTRUMENT GROUND INSTRUCTION.** (3-3-0). Advanced meteorology; federal aviation regulations and air traffic control procedures, enroute navigation and communication; chart reading; flight planning; preparatory for the FAA instrument rating written examination. Prerequisite: 2050 or consent of instructor.
- 4110. FLIGHT INSTRUCTOR GROUND INSTRUCTION.** (3-3-0). Theory of flight; fundamentals of instructing; analysis of maneuvers. Preparatory for the FAA flight instructor written examination. Prerequisite: 4100 or consent of instructor.
- 4120. INSTRUMENT FLIGHT INSTRUCTOR GROUND INSTRUCTION.** (3-3-0). Theory of flight by reference to instruments; analysis of flight maneuvers by reference to instruments; federal aviation regulations. Preparatory for the FAA instrument instructor written examination. Prerequisite: commercial certificate and instrument rating.
- 4130. MULTI-ENGINE GROUND INSTRUCTION.** (3-3-0). Procedures and technical knowledge to qualify for and pass the multi-engine oral phase of the rating. Prerequisite: consent of instructor.
- 4140. AIRLINE TRANSPORT GROUND INSTRUCTION.** (3-3-0). Flight instruments; meteorology; air traffic control procedures; federal aviation regulation; aircraft performance charts. Preparatory for the FAA airline transport pilot written examination. Prerequisite: consent of instructor.
- 4150. MULTI-ENGINE FLIGHT INSTRUCTOR GROUND INSTRUCTION.** (3-3-0). Analysis of multi-engine procedures; fundamentals of instruction; analysis of multi-engine maneuvers. Preparation for multi-engine flight instructor oral examination. Prerequisite: 4110, 4130.
- 4500. AVIATION SCIENCE INTERNSHIP.** (4 to 12-0-30). Controlled work experience in the areas of flight operations/aviation management; designed by host organization and instructor to blend theory and practice. A minimum of 30 hours of employment required for each hour of credit earned. Periodic evaluation, special projects and summary report. Prerequisite: consent of instructor.

Flight Instruction

- 1101. PRIVATE FLYING.** (1-1-2). Instruction and flight training in preparation for the FAA private pilot flight test. May be repeated not more than four times for credit.
- 2101. COMMERCIAL FLYING.** (1-1-2). Instruction and flight training in preparation for FAA commercial pilot flight test. May be repeated not more than four times for credit. Prerequisite: private pilot certificate.
- 2121. COMMERCIAL FLYING.** (1-1-2). Instruction and flight training in preparation for the FAA commercial pilot flight test. May be repeated not more than four times for credit. Prerequisite: 2101.
- 3101. COMMERCIAL FLYING.** (1-1-2). Instruction and flight training in preparation for the FAA commercial pilot flight test. May be repeated not more than four times for credit. Prerequisite: 2121.

- 3501. SPECIAL PROBLEMS IN DUAL FLIGHT INSTRUCTION.** (1-1-2). May be repeated not more than twice for credit. Prerequisite: consent of instructor.
- 3511. SPECIAL PROBLEMS IN SOLO FLIGHT.** (1-1-2). May be repeated not more than twice for credit. Prerequisite: consent of instructor.
- 3701. TRANSITION FROM COMMERCIAL ROTOWING CERTIFICATE TO COMMERCIAL CERTIFICATE WITH AIRPLANE SINGLE ENGINE LAND RATING.** (1-1-2). Instruction and flight training in preparation for the FAA flight test for additional aircraft rating. May be repeated not more than four times for credit. Prerequisite: consent of instructor.
- 3721. TRANSITION FROM COMMERCIAL ROTOWING CERTIFICATE TO COMMERCIAL CERTIFICATE WITH AIRPLANE SINGLE ENGINE LAND RATING.** (1-1-2). Instruction and flight training in preparation for the FAA flight test for additional aircraft rating. May be repeated not more than four times for credit. Prerequisite: 3701.
- 3751. TRANSITION FROM COMMERCIAL PILOT CERTIFICATE WITH MULTI-ENGINE CLASS RATING TO COMMERCIAL CERTIFICATE WITH AIRPLANE SINGLE ENGINE RATING.** (1-1-2). Instruction and flight training in preparation for the FAA flight test for additional aircraft rating. May be repeated not more than four times for credit. Prerequisite: consent of instructor.
- 4201. COMMERCIAL/INSTRUMENT FLYING.** (1-1-2). Instruction and flight training in preparation for the FAA commercial/instrument flight test. May be repeated not more than four times for credit. Prerequisite: 3101 or consent of instructor.
- 4221. FLIGHT INSTRUCTOR FLYING.** (1-1-2). Instruction and flight training in preparation for the FAA flight instructor certification flight test. May be repeated not more than twice for credit. Prerequisite: commercial certificate and instrument rating.
- 4231. INSTRUMENT FLIGHT INSTRUCTOR FLYING.** (1-1-2). Instruction and flight training in preparation for the FAA instrument flight instructor flight test. May be repeated not more than twice for credit. Prerequisite: 4201 or consent of instructor.
- 4241. MULTI-ENGINE FLIGHT INSTRUCTION.** (1-1-2). Dual flight instruction in preparation for the FAA multi-engine flight test. May be repeated not more than twice for credit. Prerequisite: consent of instructor.
- 4251. AIRLINE TRANSPORT PILOT FLIGHT INSTRUCTION.** (2-1-3). Thirty-five hours of dual flight instruction. Provides skill to qualify for airline transport pilot certificate. Prerequisite: consent of instructor.
- 4261. MULTI-ENGINE FLIGHT INSTRUCTION.** (1-1-2). Flight instruction in preparation for the FAA multi-engine flight test. May be repeated not more than twice for credit. Prerequisite: consent of instructor.
- 4271. MULTI-ENGINE FLIGHT INSTRUCTOR FLYING.** (1-1-2). Instruction and flight training in preparation for the FAA multi-engine flight instructor certification flight test. May be repeated not more than twice for credit. Prerequisite: consent of instructor.

AVIATION TECHNOLOGY (AVTC)

For Undergraduates Only

- 1010. THEORY OF AIR TRAFFIC CONTROL I.** (3-3-0). FAA options, terminal/enroute traffic control and flight service stations.
- 1020. THEORY OF AIR TRAFFIC CONTROL II.** (3-3-0). Continuation of 1010. Terminal/enroute air traffic control, communication procedures, publications and related data used in air traffic control. Federal aviation regulations. Prerequisite: 1010 or consent of department head.
- 1500. INTRODUCTION TO AIRFRAME AND POWERPLANT TECHNOLOGY.** (3-3-0). Aviation maintenance, history of aviation, the aviation industry, government involvement in aviation, aerodynamics, FAA regulations, documentations, alterations. Airframe and powerplant mechanics, licensing requirements. Career opportunities in the field of airframe and powerplant mechanics.
- 2000. APPLIED AIR TRAFFIC CONTROL PROBLEMS I.** (4-2-6). On-the-job training in an operational tower. Area familiarization, microphone technique; transition from air traffic control theory to air traffic control practice.
- 2500. ELECTRICAL SYSTEMS AND COMPONENTS.** (3-2-3). Practical application of electrical components and related federal aviation regulations. Lighting circuits, trouble-shooting systems, power factor rectifiers and transistors, inverters.

- 2510. AIRCRAFT STRUCTURE.** (3-2-3). Woodworking tools, repair of wood aircraft structures, finishing wood aircraft, dope and recovering materials, painting, numbering aircraft stress, aircraft structural components, fiberglass, structure. Aircraft hardware, fasteners, rivets, proper use of tools, practical application of topics.
- 2520. AIRCRAFT INSTRUMENTS.** (3-2-3). Altimeters, vertical speed indicators, airspeed indicators, direction indicating systems, gyro principle, turn and slip indicators, directional gyros, gyro horizons, remote indicating systems. Installation, alteration, and repair of the above flight instruments with practical application of topics.
- 2530. AIRCRAFT WELDING.** (3-2-3). Practical application of topics; acetylene, oxygen, cylinders, regulators, torches, tips, flame, heat-treating, soldering stainless steel, brazing, gas welding, gas cutting, splicing and repair of aircraft structure.
- 3000. APPLIED AIR TRAFFIC CONTROL PROBLEMS II.** (4-2-6). Continuation of 2000. Prerequisite: 2000 or consent of department head.
- 3010. AIRCRAFT POWERPLANT MECHANICS.** (4-4-0). General principles of aircraft engines; reciprocating engines, turbine engines, engine instruments, lubrication systems, fuel metering, induction systems, cooling systems, exhaust systems, and propellers. Prerequisite: consent of department head.
- 3020. AIRCRAFT AIRFRAME MECHANICS.** (4-4-0). General principles of aircraft airframe operation. Wood structures, aircraft covering, welding, rigging. Landing gear, hydraulic, communication, fuel storage, electrical, and fire protection systems. Prerequisite: consent of department head.
- 3100. AIRPORT PLANNING, ADMINISTRATION, AND MANAGEMENT.** (3-3-0). Basic concepts; problems and requirements in planning and constructing an airport; special administration problems unique to airport administration and management. Prerequisite: junior standing.
- 3110. REGULATION OF AIR TRANSPORTATION.** (3-3-0). Manned flight; development and present status of the air transportation industry; federal acts regulating air transportation; local, state, federal, and international laws forming present structure of aviation laws. Prerequisite: junior standing.
- 3500. PROPELLER AND PROPELLER SYSTEMS.** (3-2-3). Aerodynamics, propeller theory, design. Metal propeller inspection and maintenance, controllable propeller principles, inspection maintenance. Synchronizing systems, governing systems, turbo propeller systems. Various specialized manufacturing propellers. Practical application of topics.
- 3510. PROPULSION SYSTEMS I.** (3-2-3). History of aircraft engines, engine theory and internal combustion principles, engine classification, construction and nomenclature, aviation lubricants and lubrication systems, log one word book entries. Practical application of topics.
- 3520. PROPULSION SYSTEMS II.** (3-2-3). Practical application of the following topics: inspect and troubleshoot power source, inspect and comply with airworthiness directives, demonstrate correct engine starting procedure, install and time magneto to engine, operate engine at various power settings. Engine control systems, engine testing and operation. Prerequisite: 3510.
- 3530. CARBURETION AND FUEL SYSTEMS.** (3-2-3). Theory of energy transformation, reciprocating engine fuels, fuel contamination and fuel handling, fuel metering, pressure carburetion principle, carburetor overhaul and service, single and multi-engine fuel systems, fuel quantity measuring system, basic turbine fuel controls, small jet fuel systems.
- 4500. AIRFRAME AND POWERPLANT SEMINAR.** (3-3-0). Designed to prepare qualified students for the FAA written examinations for airframe and powerplant certification. Prerequisite: must have completed a minimum of 18 hours in airframe and powerplant mechanic curriculum.
- 4501. AIRCRAFT INSPECTION.** (3-2-3). Practical application of the following topics: introduction to inspections, regulations concerning inspections, inspection practice and sequence, inspection points lubrication and service, inspection entries and records. Student will perform 100-hour inspection on aircraft of instructor's or FAA inspector's choice.

For Undergraduates and Graduates

- 4000. APPLIED AIR TRAFFIC CONTROL PROBLEMS III.** (4-2-6). Continuation of 3000. Prerequisite: 3000 or consent of department head.
- 4010. AEROSPACE EDUCATION WORKSHOP.** (3-3-0). Workshop to acquaint primary and secondary educators with methods and problems in developing aerospace education curriculum. History of aerospace development, basic aerodynamics; impact of aerospace development upon society. Guest speakers from aerospace industry, field trips to aerospace installations.

BIOLOGY (BIOL)

For Undergraduates Only

- 1010. BIOLOGICAL PRINCIPLES.** (3-3-0). Chemical basis of life, cell structure and specialization, simplified classification and evolution of plants, photosynthesis, cellular respiration and organismic processes. Prerequisite: registration in or credit for 1011. (Students may not receive credit for both Biology 1010 and Science 1020).
- 1011. BIOLOGICAL PRINCIPLES LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 1010.
- 1020. BIOLOGICAL PRINCIPLES.** (3-3-0). Reproduction of cells and organisms, pattern of inheritance, nature and action of genes, development of embryonic organisms, simplified classification and evolution of animals and ecological principles. Prerequisite: registration in or credit for 1021; 1010-1011. (Students may not receive credit for both Biology 1020 and Science 2020).
- 1021. BIOLOGICAL PRINCIPLES LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 1020.
- 2950. BIOLOGY LABORATORY TEACHING PRACTICUM.** (1-0-3). Specifically designed to involve students in the preparation and evaluation of a biology laboratory through direct participation in laboratory activities. Prerequisite: 1011-1021.
- 3000. HUMAN HEREDITY AND SOCIETY.** (4-3-3). Human genetic structure and inheritance patterns, common inherited disorders, human cytogenetics and immunogenetics, applications of chromosomal and molecular techniques in characterizing human genome, manipulation of human reproductive processes and genomic structures. Laboratory experimentation of leucocyte culturing and karyotyping, bandings of chromosomes, extracting DNA from experimental organisms, and DNA electrophoresis. Prerequisites: 1010, 1020, or Science 1020 and 2020. Not to be used for substituting Biology 3270.
- 3060. BIOMETRY.** (3-3-0). Statistical analysis of biological data. Parametric and nonparametric statistics. Prerequisite: Mathematics 1030.
- 3260. RADIATION BIOLOGY.** (2-2-0). Fundamentals of nuclear physics; basic radioisotope methodology; effects of radiation on living organisms. Prerequisite: registration in or credit for 3261; 1020-1021; Chemistry 1040-1051; Physics 2040-2041; junior standing or consent of instructor.
- 3261. RADIATION BIOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 3260.
- 4900. UNDERGRADUATE SEMINAR.** (1-0-0). Reports and discussions on current research. May be repeated any number of times, but no more than two hours may be applied toward a B.S. degree.

For Undergraduates and Graduates

- 3270. GENETICS.** (3-3-0). Principles of heredity and their application to plants and animals, including man. Prerequisite: six hours of biological sciences.
- 4000. MOLECULAR CELL BIOLOGY.** (3-3-0). Cell function in molecular terms. Topic areas are cell organization and subcellular structure, manipulation of macromolecules, molecules in cells, proteins and nucleic acids, cellular function, gene expression, structure replication in prokaryotic and eukaryotic cells. Prerequisite: Biology 3270
- 4080. ORGANIC EVOLUTION.** (3-3-0). Principles and dynamics of evolution processes. Prerequisite: 1020-1021 and 3270 or consent of instructor.
- 4400. GENERAL ECOLOGY.** (3-3-0). Fundamental ecological principles with reference to ecosystem structure and function and interrelationship among and between living and non-living components of nature. Prerequisite: registration in or credit for 4401, 1020-1021; junior standing or consent of instructor.
- 4401. GENERAL ECOLOGY LABORATORY.** (1-0-3). Sampling and field methods of measurements of abiotic and biotic factors. Prerequisite: registration in or credit for 4400 or consent of instructor.

For Graduates Only

- 5040. BIOLOGY FOR SECONDARY TEACHERS.** (3-3-0). Principles of biology with application to secondary school biology. Current trends and literature in biology. Prerequisite: 12 hours of biology.

- 5070. EXPERIMENTAL BIOLOGY FOR TEACHERS.** (3-1-4). Development of laboratory techniques useful for a modern secondary laboratory in an internship setting. Design and implementation of original experiments. Survey of laboratory experiments and demonstrations.
- 5950. PROBLEMS IN TEACHING BIOLOGY.** (1 to 3-3-0). Special problem course in preparation of innovative teaching materials for Biology lecture and/or laboratory. Students to be prepared to present a formal written and oral presentation.

BOTANY (BOT)

For Undergraduates Only

- 2100. GENERAL BOTANY.** (2-2-0). Structure and functions of plant cells, tissues, and organs; nutrition, metabolism, water relations, growth of plants. Prerequisite: registration in or credit for 2101; Biology 1020-1021 or consent of instructor.
- 2101. GENERAL BOTANY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 2100.
- 2140. INTRODUCTORY PLANT TAXONOMY.** (1-1-0). Identification and classification of local seed plants and ferns; field trips and collections; keys, manuals and herbaria. Prerequisite: registration in or credit for 2141; Biology 1020-1021.
- 2141. INTRODUCTORY PLANT TAXONOMY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 2140.
- 4950. BOTANICAL PROBLEMS.** (1 to 4-0-0). Individual research: procedures, results, and conclusions presented in the form of a research paper. Prerequisite: junior standing; consent of department head and proposed research director. Area of concentration is identified as follows:
- 01-algology
 - 02-disease
 - 03-ecology
 - 04-genetics
 - 05-mycology
 - 06-physiology
 - 07-taxonomy

BUSINESS ADMINISTRATION (BUAD)

For Undergraduates Only

- 1040. FUNDAMENTALS OF BUSINESS ENTERPRISE.** (3-3-0). The American business system; business organization and management; finance; marketing; government regulation of business. (May not be elected by accounting or business administration majors who are classified junior or higher.)
- 2120. BASIC BUSINESS STATISTICS.** (3-3-0). A basic statistical foundation is developed; emphasis is then placed upon practical business applications including hypothesis testing, ANOVA, contingency table analysis, and introductory regression analysis; material is related directly to business applications. Prerequisite: any of the following: Mathematics 1060, 1090, 1100, 1810, 2010 or SMAT 1820 and 1840, or 2810.
- 2250. LEGAL ESSENTIALS FOR SMALL BUSINESSES.** (3-3-0). Legal aspects of buying and owning a small business in Louisiana, including the bulk sales act, workmen compensation, employer-employee relationships, bankruptcy, and property rights. Considers mainly Louisiana law.
- 3120. INTERMEDIATE BUSINESS STATISTICS.** (3-3-0). Time series, index numbers, analysis of variances, chi square, non-parametric tests applied to business and economic problems. Prerequisite: successful completion of Business Administration 2120 or SSTA 2810 and junior standing.
- 3250. BUSINESS LAW I.** (3-3-0). The study of the legal environment of Business, with an emphasis on the development of law, an overview of the court system, legal concepts underlying business crimes and torts, contracts, employer-employee relationships, commercial paper, and property rights, ethics. Prerequisite: junior standing.
- 3260. BUSINESS LAW II.** (3-3-0). Legal concepts underlying the areas of sales, creditors rights, secured transactions, bankruptcy, business organizations including sole proprietorships. Partnerships, and corporations, agencies, lenders and directors liability, and accountants liability. Prerequisite: junior standing.

- 3270. INTERNATIONAL BUSINESS.** (3-3-0). Pertinent dimensions of the global business environment. Focusing on the international aspects of management, marketing, finance, accounting and economics. Various theories related to global business will be presented and applied in the form of cases.
- 4000. READING AND DISCUSSION.** (1 to 3-3-0). Books on problems and issues of contemporary significance for the business community. Prerequisite: Economics 2010, 2020, and consent of instructor.
- 4160. U.S. AND FOREIGN BUSINESS CENTERS.** (1 to 6-0-0). Study tours of selected centers of business and economic activity in the U.S. and abroad. Prerequisite: consent of instructor.
- 4190. SMALL BUSINESS ENTREPRENEURSHIP.** (3-3-0). Analysis of small business operations. Integration of knowledge and application of theories across functional areas. Prerequisite: senior standing and consent of instructor.

BUSINESS EDUCATION (BUED)

For Undergraduates Only

- 4200. CAREER AND VOCATIONAL EDUCATION IN AMERICAN SCHOOLS.** (3-3-0). Principles and philosophies of cooperative vocational education. Relationship of vocational education to general education. Development of cooperative training under the George-Barden, George-Dean Acts, the Vocational Act of 1963, as amended; current career education legislation. Prerequisite: Education 2020, Educational Psychology 3000, and consent of instructor.
- 4220. COOPERATIVE OFFICE EDUCATION PROGRAM.** (3-3-0). Developing and coordinating a cooperative office education program in the secondary school. Prerequisite: Education 2020, Educational Psychology 3000, and consent of instructor.
- 4230. HUMAN RELATIONS IN BUSINESS EDUCATION.** (3-3-0). Human relations and its importance in the educational, occupational, economic, and social activities of an individual involved in the instruction and/or supervision of other persons in office occupations or distributive education. (Same as Distributive Education 4230).

For Graduates Only

- 5100. BASIC PRINCIPLES IN BUSINESS EDUCATION.** (3-3-0). Problems facing business education; principles underlying a sound program; development and evaluation of aims of business education in terms of the contribution made to the general program of secondary education.
- 5950. RESEARCH PROBLEMS IN DISTRIBUTIVE AND BUSINESS EDUCATION.** (1 to 6-0-0).
- 6210. IMPROVEMENT OF INSTRUCTION IN SECRETARIAL STUDIES.** (3-3-0). New classroom procedures and teaching techniques developed from recent research and experimentation; stages of learning and the type of instruction and instructional materials used in each; problems of individual teachers and individual learners examined and possible solutions worked out.
- 6220. IMPROVEMENT OF INSTRUCTION IN BOOKKEEPING.** (3-3-0). Problems and techniques related to the skills, objectives, and content of bookkeeping; source of materials and suggested techniques for instruction and testing.
- 6230. IMPROVEMENT OF INSTRUCTION IN GENERAL BUSINESS.** (3-3-0). Problems, skills, objectives, and content of general business; techniques of presentation, testing, and source material.

CHEMISTRY (CHEM)

For Undergraduates Only

- 1010. CHEMISTRY ORIENTATION.** (1-1-0). Specific information concerning scholastic resources, study skills, academic requirements, academic and intellectual content, job opportunities, academic advising, and scholarships.
- 1030. GENERAL CHEMISTRY.** (3-3-0). Atomic and molecular structure; chemical bonding; properties of gases, liquids and solids; chemistry of some non-metals. For students who plan to take 1040 and 2000- or 3000-level chemistry courses. Prerequisite: placement in Mathematics 1020. (May not receive credit for both Chemistry 1030 and Science 1010).

- 1040. GENERAL CHEMISTRY.** (3-3-0). Continuation of 1030. Chemical equilibrium, chemistry of metals and some of their compounds; nuclear chemistry. Prerequisite: credit for 1030, registration in or credit for 1051. (May not receive credit for both Chemistry 1040 and Science 2010).
- 1051. GENERAL CHEMISTRY LABORATORY.** (2-0-6). Basic chemistry experiments; identification of common inorganic ions; quantitative inorganic analysis; chemical equilibrium. Prerequisite: registration in or credit for 1040. Pass/fail grade.
- 1070. INTRODUCTORY CHEMISTRY.** (3-3-0). Principles of chemistry for students who plan to take 1080 as a terminal chemistry course. Topics include atomic and molecular structure, chemical bonding and properties of gases, liquids and solids. Prerequisite: placement in Mathematics 1020. (May not receive credit for both Chemistry 1070 and Science 1010).
- 1080. INTRODUCTORY BIOCHEMISTRY.** (3-0-0). Chemistry of carbohydrates, lipids and proteins; major metabolic pathways. Prerequisite: registration in or credit for 1091; credit for 1070.
- 1091. INTRODUCTORY CHEMISTRY LABORATORY.** (1-0-2). Experiments in general chemistry. Prerequisite: registration in or credit for 1080. Pass/fail grade.
- 2040. CLINICAL CHEMISTRY.** (3-3-0). Chemistry of proteins, nucleic acids, and enzymes and the metabolism of carbohydrates, lipids, proteins and nucleic acids; blood and urine chemistry. May not be used to meet requirements for a major or minor in chemistry. Prerequisite: registration in or credit for 2041; Chemistry 3010-3011.
- 2041. CLINICAL CHEMISTRY LABORATORY.** (1-0-3). General experiments in physiological chemistry. Prerequisite: registration in or credit for 2040.
- 2110. QUANTITATIVE ANALYSIS.** (3-3-0). Chemical equilibrium; pH and indicators; solutions; oxidation-reduction and the calculations of analytical chemistry; reliability of measurements; theory and applications of gravimetric, volumetric, and other representative analytical procedures. Prerequisite: registration in or credit for 2111; 1040-1051.
- 2111. QUANTITATIVE ANALYSIS LABORATORY.** (1-0-3). General experiments. Prerequisite: registration in or credit for 2110.
- 2120. INTRODUCTION TO INSTRUMENTAL ANALYSIS.** (3-3-0). Prerequisite: registration in or credit for 2121; 2110-2111.
- 2121. INTRODUCTION TO INSTRUMENTAL LABORATORY.** (1-0-3). pH, polarographic, spectroscopic and emission spectroscopic measurements and separation techniques such as gas, thin layer and ion exchange chromatography, liquid-liquid extraction, and electro-deposition for chemical analysis. Prerequisite: registration in or credit for 2120.
- 2140. DESCRIPTIVE INORGANIC CHEMISTRY.** (2-2-0). An introduction to basic inorganic chemistry including a systematic study of the periodic table with emphasis on the structures, properties and reactions of inorganic compounds. Prerequisite: 1040, 1051; registration in or credit for 2141.
- 2141. INORGANIC CHEMISTRY LABORATORY.** (1-0-3). A laboratory course involving the preparation and characterization of compounds of common elements, including salts, coordination complexes and covalent compounds. Prerequisite: registration in or credit for 2140.
- 2200. PRACTICUM FOR CHEMISTRY TEACHING.** (1 to 3-0-0). Supervised experience in teaching in the chemistry laboratory. Recommended for secondary education chemistry majors and minors and chemistry majors contemplating a teaching career. One hour credit for each laboratory teaching experience. Prerequisite: consent of department head.
- 3010. ORGANIC CHEMISTRY.** (3-3-0). First half of a one-year course. Preparation, properties, uses, and mode of reaction of representative aliphatic and aromatic compounds; halides, hydrocarbons, stereochemistry and spectroscopy. Prerequisite: registration in or credit for 3011; 1040-1051.
- 3011. ORGANIC CHEMISTRY LABORATORY.** (2-0-4). Basic experiments. Prerequisite: registration in or credit for 3010.
- 3020. ORGANIC CHEMISTRY.** (3-3-0). Second half of a one-year course. Preparation, properties, uses, and mode of reaction of aliphatic and aromatic compounds; emphasis on alcohols, aldehydes, ether, ketones, amines, acids and their derivatives. Prerequisite: registration in or credit for 3021; 3010-3011.
- 3021. ORGANIC CHEMISTRY LABORATORY.** (2-0-4). Continuation of 3011. Preparation and qualitative analysis of organic compounds. Prerequisite: registration in or credit for 3020.
- 3400. MINICOMPUTER INTERFACING WITH SCIENTIFIC INSTRUMENTATION.** (3-3-0). Minicomputers in real-time data acquisition and control of scientific instruments. Prerequisite: basic computer course or consent of instructor. (Same as Physics 3400).

- 3900. SPECIAL TOPICS IN CHEMISTRY.** (1 to 3-1 to 3-0). In-depth study of various upper-level elective topics in chemistry; in particular, those not included explicitly among the catalog listings. Prerequisite: 1030, 1040, 1051, 2110-2111, 3010-3011 or consent of instructor.
- 4900. UNDERGRADUATE SEMINAR.** (1-1-0). Reports and discussions on current research presented by faculty, guest scientists, and students registered for 4950, 5950, and 5980. May be repeated any number of times, but no more than two hours may be applied toward a B.S. degree.
- 4950. RESEARCH PROBLEMS IN CHEMISTRY.** (1 to 4-0-0). Individual laboratory investigation, the results presented both in a formal report and orally, either at a departmental seminar or professional meeting. Prerequisite: consent of department head.
- 4980. DIRECTED INDIVIDUAL RESEARCH FOR UNDERGRADUATE STUDENTS.** (3-0-9). Chemical research methods for undergraduate students. Investigation of a problem in experimental or theoretical chemistry under supervision of a faculty member. The student will present an oral report to a seminar and a written report describing the results of the research. Should be taken the first semester of the senior year. Prerequisite: consent of the department head.

¹ Credit may not be obtained for both 1030 and either Science 1010 or Chemistry 1070.

² Designed for students in home economics, nursing, and other programs requiring terminal courses in chemistry; may not be counted toward a chemistry major or minor. Credit may not be obtained for 1080 and 3010.

³ Credit not allowed for both 2040 and 4040.

⁴ No more than two hours may be applied toward a minor or major in chemistry.

For Undergraduates and Graduates

- 3210. PHYSICAL CHEMISTRY.** (3-3-0). Principles and applications of chemical thermodynamics. Prerequisite: a year of general physics and calculus.
- 3211. PHYSICAL CHEMISTRY LABORATORY.** (1-0-3). General experiments. Prerequisite: registration in or credit for 3210.
- 3220. PHYSICAL CHEMISTRY.** (3-3-0). Continuation of 3210. Chemical kinetics; quantum chemistry with applications to molecular structure and spectroscopy. Prerequisite: 3210 or Physics 3710.
- 3221. PHYSICAL CHEMISTRY LABORATORY.** (1-0-3). Continuation of 3211. Prerequisite: registration in or credit for 3220.
- 4040. GENERAL BIOCHEMISTRY.** (3-3-0). Chemistry of constituents of living matter: carbohydrates, lipids, proteins, nucleic acids, inorganic and other organic materials; chemistry of enzymes as highly specific protein catalysts. Prerequisites: registration in or credit for 4041; Chemistry 3020-3021, 2110-2111, 3210-3211 or consent of instructor.
- 4041. GENERAL BIOCHEMISTRY LABORATORY.** (1-0-3). General experiments in biochemistry; modern biochemical-type instrumentation. Prerequisite: registration in or credit for 4040.
- 4050. GENERAL BIOCHEMISTRY.** (3-3-0). Continuation of 4040. Chemical transformation in living matter; metabolism of carbohydrates, lipids, proteins, nucleic acids, and other biochemical matters. Prerequisite: 4040-4041.
- 4130. QUANTUM CHEMISTRY.** (3-3-0). Methods of quantum mechanics as applied to chemistry. Prerequisite: 3220-3221.
- 4140. INORGANIC CHEMISTRY.** (3-3-0). Theories of inorganic chemistry, including atomic, molecular and crystal structure, thermochemical and electrochemical properties, acidity, solvent systems and coordinated compounds. Prerequisite: 3220-3221.
- 4160. ADVANCED INSTRUMENTAL ANALYSIS.** (2-2-0). Procedures for inorganic and organic product analysis; employment of representative group of instrumental methods. Prerequisite: registration in or credit for 4161; 3220-3221.
- 4161. ADVANCED INSTRUMENTAL LABORATORY.** (2-0-6). Prerequisite: registration in or credit for 4160.
- 4230. POLYMER CHEMISTRY.** (3-3-0). Introductory course. Prerequisite: 3020-3021, 3220-3221, or consent of department head.

¹ Credit not allowed for both 2040 and 4040.

For Graduates Only

- 5000. GENERAL CHEMICAL PRINCIPLES FOR TEACHERS.** (3 to 8-0-0). Principles of chemistry, including states and chemical transformation of matter with emphasis on recent developments. For teachers who need refresher courses in chemistry. Prerequisite: consent of department head.
- 5010. CHEMISTRY FOR SECONDARY TEACHERS.** (3-3-0). Principles of chemistry with application to secondary school chemistry. Current trends and literature in chemistry. Prerequisite: 12 hours of chemistry.
- 5020. EXPERIMENTAL CHEMISTRY FOR TEACHERS.** (3-3-0). Development of laboratory techniques necessary for a modern secondary laboratory. Laboratory experiments and demonstrations.
- 5090. PHYSICAL SCIENCE FOR ELEMENTARY TEACHERS.** (3 to 4-0-0). Teaching basic principles of physical science at the elementary level by the inquiry method.
- 5950. RESEARCH PROBLEMS IN CHEMISTRY.** (1 to 6-0-0).

COMPUTER (COMP)

For Undergraduates Only

- 1010. UNDERSTANDING AND USING THE INTERNET.** (3-3-0). Fundamental concepts of accessing and utilizing the Internet. Using Internet tools such as electronic mail, discussion groups, and network browsing for academic purposes. The course will be conducted almost entirely on the Internet with a few classroom meetings. No previous Internet experience required. Prerequisite: consent of the instructor.
- 1020. INTRODUCTION TO COMPUTER APPLICATIONS.** (3-3-0). Computers and Computing systems; general education course for all students. Keyboarding techniques and general microcomputer operation skills.
- 2010. ADVANCED MICROCOMPUTER APPLICATIONS.** (3-3-0). Personal Computer based applications in a Graphical User Interface environment. Data exchange between word processing, spreadsheet and database applications; design of Macros and Templates; installing and customizing a Graphical User Interface operating environment. Prerequisite: Computer 1020 or consent of instructor.

For Graduates Only

- 5000. BASIC PROGRAMMING AND COMPUTER APPLICATIONS.** (3-3-0). Standard programming techniques used in BASIC programming. The logic, syntax, and code involved in developing programs to apply to different problems and tasks. Prerequisite: computer literacy course or consent of instructor.
- 5010. MICROCOMPUTER SYSTEMS.** (3-3-0). Mini/Microprocessors; types and levels of language. Use as a problem solving or teaching tool at all levels of education or professional areas. Prerequisite: knowledge of keyboarding or consent of instructor.
- 5020. DIRECTED STUDY IN COMPUTER APPLICATIONS.** (3-1-4). Individual work on special problems in computer information systems. Subject area:
01-applications
02-hardware
03-software
May be repeated for a maximum of nine hours. Maximum of three hours may apply toward a degree. Prerequisite: 5000, 5010 or equivalent.
- 5030. COMPUTER APPLICATIONS SYSTEMS FOR SECONDARY SCHOOLS.** (3-3-0). Teaching a modern computer information systems course at the secondary level. Techniques and concepts of how the computer can be used as a tool in processing information in problem solving. Prerequisite: computer literacy course or consent of instructor.

COMPUTER INFORMATION SYSTEMS (CIS)

For Undergraduates Only

- 1030. INTRODUCTION TO PROGRAMMING TOOLS.** (3-3-0). An introduction to modern programming techniques and tools necessary to develop structured programs. Problem solving techniques will be introduced.
- 1040. OPERATING SYSTEMS.** (1-1-0). The interaction of operating systems and applications software development. Emphasis on the OS/2 operating system.

- 1800. MICROCOMPUTER APPLICATIONS I. (3-3-0).** An introduction to microcomputer application software problems and exercises. Word processors, electronic spreadsheets, database management systems, and other modern microcomputer software will be covered. Prerequisite: Computer 1020.
- 2020. BEGINNING STRUCTURED COBOL PROGRAMMING. (3-3-0).** Concepts of business programming, methods of utilizing the computer. Prerequisite: 1030.
- 2070. INTRODUCTION TO INFORMATION ENGINEERING. (3-3-0).** Introduction to the information engineering methodology through hands-on experience and class room discussion. Overview of the systems development life cycle, CASE technology, information technology, and the nature of business problems. Prerequisite: 1030, Accounting 2000.
- 3030. ADVANCED STRUCTURED COBOL PROGRAMMING. (3-3-0).** Use in solution of business problems. Prerequisite: 2020.
- 3980. INFORMATION ENGINEERING I. (3-3-0).** Application of the first two stages of Information Engineering methodology with an emphasis on user involvement students will be schooled in the use of computer aided software engineering (CASE) techniques as they apply to Information Strategy Planning (ISP) and Business Area Analysis (BAA). Prerequisites: 1050, 2020.
- 3990. INFORMATION ENGINEERING II. (3-3-0).** Continuation of the information engineering methodologies, providing the student with hands on use of CASE tools in the application of business system design (BSD) and technical design and construction (TD/Const). Emphasis will be directed to building on the output of the ISP and BAA phases in the actual design and construction of information systems. Prerequisite: 3980.
- 4000. DATABASE DESIGN AND ADMINISTRATION. (3-3-0).** Fundamentals of database design, logical and physical characteristics. Prerequisite: 3030.
- 4030. DECISION SUPPORT AND EXPERT SYSTEMS. (3-3-0).** Use of information systems technology to support unstructured decision making. Application of decision support software, expert system shells, knowledge engineering, and managerial problem solving. Prerequisite: Management 3580.
- 4040. INFORMATION ENGINEERING III. (3-3-0).** An integration of the entire Information Engineering development life cycle into a single project. Application of ISP, BAA, BSD, and TD/Construction concepts and techniques within an actual development setting. Prerequisite: 3990.
- 4220. BUSINESS TELECOMMUNICATIONS. (2-2-0).** Basic technical concepts and key telecommunications techniques and applications, including computer networking and video conferencing. Prerequisite: 1030 or consent of instructor.
- 4600. "C" PROGRAMMING. (3-3-0).** Structured programming using the C language in modular program development. Prerequisite: 2020 or 3550 or consent of instructor.

For Undergraduates and Graduates

- 4800. MICROCOMPUTER APPLICATIONS II. (3-3-0).** Advanced microcomputer application software problems and exercises. Current disk operating systems, networking, and telecommunication techniques. Prerequisite: 1800 or consent of instructor.

COMPUTER SCIENCE (CSC)

For Undergraduates Only

- 1030. INTRODUCTION TO STRUCTURED PROGRAMMING. (3-3-0).** Introduction to the concepts of structured computer programming using BASIC. Cannot be used for credit towards computer science minor. For students with no programming experience.
- 1060. PROGRAM DESIGN I. (3-3-0).** Fundamental concepts of structured programming. Emphasis is on correct program design, algorithm analysis, and problem solving methods. Corequisite: Mathematics 1020.
- 2010. SCIENTIFIC PROGRAMMING IN FORTRAN. (3-3-0).** Introduction to scientific programming and applications using FORTRAN. Prerequisite: 3 hours Computer Science. Corequisite: Mathematics 1090.
- 2060. PROGRAM DESIGN II. (3-3-0).** Introduction to data structures (arrays, stacks, linked lists, queues, trees, file structures, etc.) and their applications; modular programming; programming in the large; and abstract data types. Prerequisite: 1060.
- 2070. COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE PROGRAMMING. (3-3-0).** Data Representation and radix conversion, machine level and assembly language programming, instruction types, and subroutines. Prerequisite: 1060.

- 2080. DISCRETE MATHEMATICS FOR COMPUTER SCIENCE.** (3-3-0). Propositional and first order logic, constructive proofs, mathematical induction, set theory, relations, functions, recursion, computability and recurrence relations, graph theory and graph algorithms, Turing machines. Prerequisites: Mathematics 1020 and 1090 or consent of instructor (same as Mathematics 2080).
- 3050. PROGRAMMING LANGUAGES.** (3-3-0). Syntactic and semantic concepts of programming languages, BNF grammars, syntax, diagrams, scope, binding time, parameter passing mechanisms, data types, control constructs. Survey and comparison of various languages. Prerequisite: 2060.
- 3060. DATABASE THEORY AND DESIGN.** (3-3-0). Advanced treatment of database and information system models (hierarchical, network, and relational), design of DBMS or IS system, normal forms, introduction to expert systems and advanced data models.
- 4050. PRINCIPLES OF OPERATING SYSTEMS.** (3-3-0). Concurrency control, semaphores, monitors, tasks, memory management, virtual memory, process, management, disks and file access and management, interprocess communication, queuing theory. Prerequisite: 2060 and 2070.
- 4060. OBJECT ORIENTED PROGRAMMING.** (3-3-0). Introduction to the fundamental concepts of the object-oriented paradigm using C++ or small talk programming language. Topics: objects, methods, encapsulation, messages and message passing, inheritance, information hiding. Prerequisite: 3050 or consent of the instructor.

COOPERATIVE OCCUPATIONS EXPERIENCE (COOP)

For Undergraduates Only

- 1010. COOPERATIVE OCCUPATIONAL EXPERIENCE I.** (2-0-0). Supervised work experience in related occupational areas. May be repeated three times. Prerequisite: admission to the cooperative program.
- 3010. COOPERATIVE OCCUPATIONAL EXPERIENCE II.** (1-0-0). Supervised work experience program for students who leave the campus for one semester to work full-time in a major related field. May be repeated three times. Prerequisite: admittance to the cooperative program. Grading pass/fail.

COUNSELING (COUN)

For Undergraduates Only

- 1010. PEER COUNSELING AND LEADERSHIP DEVELOPMENT.** (2-2-0). Skills in peer counseling, leadership, communication, and knowledge of organizational procedures in potential college leaders. Prerequisite: consent of instructor.
- 1020. PRACTICAL EXPERIENCE IN COLLEGE LEADERSHIP DEVELOPMENT.** (2-2-0). Continuation of 1010; development, presentation, and critique of projects related to leadership and organizational roles on the college campus. Prerequisite: 1010.

For Undergraduates and Graduates

- 4980. WORKSHOP IN GUIDANCE.** (1 to 3-1 to 3-0). Selected aspects of guidance programs including principles and philosophy, vocational guidance, measurement, program organization, and counseling.

For Graduates Only

- 5000. DYNAMICS OF THE COUNSELING PROCESS.** (3-2-2). Philosophical and psychological bases for counseling practice; application of individual and group counseling techniques.
- 5510. CAREER AND LIFESTYLE PLANNING.** (3-2-2). Pertinent philosophy and theories of career development, sources of career information and technology designed to assist individuals and groups in lifelong career and lifestyle planning.
- 5520. ANALYSIS OF THE INDIVIDUAL.** (3-3-0). Techniques and materials available, interpretation and synthesis of individual inventory data and their application to the counseling process. Prerequisite or corequisite: Educational Psychology 4400 or consent of instructor.
- 5530. THEORIES OF COUNSELING.** (3-3-0). Philosophy, theory, and methods of counseling, techniques used by the counselor in realizing the objectives sought in the counseling interview. Prerequisite or corequisite: 5000; 5540 or Student Personnel Services 5500 or consent of instructor.

- 5540. ORGANIZATIONAL BEHAVIOR AND LEADERSHIP IN SCHOOL COUNSELING.** (3-3-0). Relationship of counseling and collaboration with other areas of education - academic units within schools, family units, and the community; study of the organizational behavior of schools; study of the counselor as an educational leader in organizing, coordinating, and interpreting all phases of the counseling program.
- 5550. SUPERVISED EXPERIENCE/PRACTICUM.** (3-1-5). Supervised training opportunity to practice and demonstrate competency in the practical application and integration of principles and methods which have been studied in the training program. Prerequisite: A grade of B or better must be earned in all prerequisite courses (5000, 5530, 5540 or Student Personnel Services 5500 and Educational Psychology 5460) in order to be eligible to enroll in 5550. (Same as Student Personnel Services 5550).
- 5560. ADVANCED COUNSELING INTERNSHIP.** (3-1-2). Counseling theories; improvement of competencies in counseling through extensive experience in guidance and counseling under supervision. May be repeated for academic credit. Prerequisite: 5550.
- 5580. THE GROUP PROCESS.** (3-3-0). Principles and techniques of group procedures; analysis of interactions and roles played within groups; function of group counseling. Prerequisite: 5000, 5530, 5540 or Student Personnel Services 5500 or consent of instructor. (Same as Student Personnel Services 5580).
- 5590. SPECIAL PROBLEMS IN COUNSELING.** (1 to 3-1 to 3-0). Seminar requiring individual investigation of problems in guidance, culminating in a research report. Prerequisite: Education 5010; 5540 or Student Personnel Services 5500, and six additional hours of credit in counseling courses.
- 5600. SEMINAR IN ELEMENTARY SCHOOL COUNSELING.** (3-3-0). Principles and techniques of counseling applicable to elementary school. Prerequisite: 5540 or consent of instructor.
- 5610. MULTICULTURAL AND DIVERSE POPULATIONS.** (3-3-0). Didactic and experiential study of selected ethnic and diverse populations. Culturally relevant models of theory and practice will be explored to develop attitudes, knowledge, and skills necessary to counsel with diverse populations. Prerequisite: 5550/Student Personnel Services 5550 or consent of instructor.
- 5650. PROCEDURES IN FAMILY COUNSELING.** (3-3-0). Theory and process in family counseling; problem solving techniques applied to parent-child conflict. Prerequisite: 5530.
- 5810. CAREER DEVELOPMENT IN CHILDHOOD.** (3-3-0). Psychology of career development in childhood; preparation of counselors in orienting children to the world of work. Prerequisite: 5540.
- 5860. COUNSELING NEEDS AND ISSUES OF MEN.** (3-3-0). Overview of the men's movement with a focus on the socialization of men, men's issues, and strategies for counseling with men. Prerequisite: 5000 or consent of instructor.
- 5870. COUNSELING THE GIFTED.** (3-3-0). Designed to provide school personnel and parents with techniques for enhancing interpersonal relationships with gifted students. Emphasis on counseling/communication skills and specific strategies for facilitating emotional wellness and coping ability in these students. Prerequisite: Special Education 5840 or consent of instructor. (Same as Special Education 5870).
- 5900. SEMINAR IN INTERPERSONAL RELATIONSHIPS.** Non-credit. Issues, trends, and encounters in interpersonal relationships. Prerequisite: enrollment as a major in counseling or student personnel services or consent of instructor.
- 5980. THESIS.** (1 to 6-0-1 to 6).
- 5990. FIELD STUDY IN COUNSELING.** (6-6-0). Student will originate, develop, field-test and evaluate a project designed to investigate an educational problem in the public schools. Project must have the approval of the student's advisory committee.
- 6510. FIELD EXPERIENCES IN OCCUPATIONAL DEVELOPMENT.** (3-3-0). Vocational theories, structures, and trends in this geographical area. Participants visit work sites and write occupational critiques of these visits. Opportunity to plan, develop, present and evaluate under supervision an in-depth project related to career development in a variety of settings. Prerequisite: 5510.
- 6530. COUNSELING SEMINAR.** (3-3-0). Research, issues, and areas in counseling. Synthesizing of a personal theory of counseling. Prerequisite: 5550 or consent of instructor.
- Subtitles:
- 01: General Topics/Trends and Issues
 - 02: Advanced Group Leadership
 - 03: Counseling Supervision

CRIMINAL JUSTICE (CJ)

For Undergraduates Only

- 1100. INTRODUCTION TO CRIMINAL JUSTICE.** (3-3-0). Agencies and processes in the criminal justice system: legislature, the police, the prosecutor, the public defender, the courts, and corrections. Roles and problems of law enforcement in a democratic society; inter-component relations and checks and balances.
- 2160. COMMUNITY RELATIONS IN CRIMINAL JUSTICE.** (3-3-0). Problems in citizen relations; treatment of victims, witnesses, and jurors; citizen involvement in the criminal justice process; community resources related to criminal justice programming. Prerequisite: 1100.
- 2300. POLICE PROCESS.** (3-3-0). Social and historical settings of the police; police role and career; police discretion; police values and culture; organization and control. Prerequisite: 1100.
- 2400. ADJUDICATION PROCESS.** (3-3-0). Role and structure of prosecution, public defense, and courts; basic elements of the substantive criminal law; procedural law and relation to constitutional guarantees. Prerequisite: 1100.
- 2500. CORRECTIONS PROCESS.** (3-3-0). Post-conviction correction process; development of a correctional philosophy, theory and practices; description of institutional operation, programming, and management; community base correction; probation and parole. Prerequisite: 1100.
- 3350. ANALYSIS OF POLICE OPERATIONS.** (3-3-0). Police organizations and management; allocation of police resources; information systems; community-relations concerns; determinants of police policy. Prerequisite: 2300.
- 3360. CRIMINAL INVESTIGATION.** (3-3-0). Fundamentals of investigation; crime-scene search and recording; collection and preservation of physical evidence; scientific aids; modus operandi; sources of information; interview and interrogation; follow-up and case preparation. Prerequisite: 2300.
- 4450. CRIMINAL LAW.** (3-3-0). The legal definition of crime and defenses; purposes and functions of the substantive criminal law; historical foundations; limits of criminal law; case study approach. Prerequisite: 2400.
- 4460. CRIMINAL EVIDENCE AND PROCEDURE.** (3-3-0). Constitutional and procedural considerations affecting arrest, search and seizure, post-conviction treatment; origin, development, philosophy, constitutional basis of evidence; kinds and degrees of evidence and rules governing admissibility; judicial decisions interpreting individual rights and case studies; case study approach. Prerequisite: 2400.

DANCE (DAN)

Activity Courses for Men and Women

- 1100. BEGINNING BALLET.** (2-0-3).
- 1110. JAZZ DANCE.** (2-0-3).
- 1120. BALLROOM DANCE.** (2-0-3).
- 1130. BEGINNING FOLK AND ETHNIC DANCE.** (2-0-3).
- 1140. BEGINNING MODERN DANCE.** (2-0-3).
- 1150. BEGINNING TAP DANCE.** (2-0-3).
- 1170. VARSITY DANCE.** (2-0-6).
- 1180. DANCE LINE.** (2-0-6).

¹ May be repeated for credit as permitted by University policy on Credit for Extra Curricula Activity.**Performance Ensembles**

For dance majors and minors, and other students by audition. Prerequisite: consent of instructor.

- 2400. BALLET COMPANY.** (2-0-6). **2410. JAZZ DANCE ENSEMBLE.** (2-0-6).
- 2440. MODERN DANCE ENSEMBLE.** (2-0-6).
- 3520. BALLROOM DANCE EXHIBITION.** (2-0-3).
- 3530. FOLK AND ETHNIC DANCE EXHIBITION.** (2-0-3).
- 3550. TAP DANCE REPERTORY.** (2-0-3).

Performance Instruction

For dance majors and minors, and other students by audition. Prerequisite: consent of instructor.

- 1700. BALLET TECHNIQUE.** (2-0-4). Practices and techniques of ballet performance. May be repeated for credit, maximum credit eight hours. Prerequisite: consent of instructor.

- 1740. **MODERN DANCE TECHNIQUE.** (2-0-4). Practices and techniques of modern dance performance. May be repeated for credit, maximum credit eight hours. Prerequisite: consent of instructor.
- 3700. **ADVANCED BALLET TECHNIQUE.** (2-0-4). Practices and techniques of ballet performance. May be repeated for credit, maximum credit eight hours. Prerequisite: junior standing in dance major and consent of dance faculty.
- 3740. **ADVANCED MODERN DANCE TECHNIQUE.** (2-0-4). Practices and techniques of modern dance performance. May be repeated for credit, maximum credit eight hours. Prerequisite: junior standing in dance major and consent of dance faculty.
- 5700. **GRADUATE BALLET TECHNIQUE.** (2-0-4). Practices and techniques of ballet performance and teaching. May be repeated for credit, maximum credit eight hours. Prerequisite: graduate standing in dance curriculum and consent of dance faculty.
- 5740. **GRADUATE MODERN DANCE TECHNIQUE.** (2-0-4). Practices and techniques of modern dance performance and teaching. May be repeated for credit, maximum credit eight hours. Prerequisite: graduate standing in dance curriculum and consent of dance faculty.

For Undergraduates Only

- 1010. **INTRODUCTION TO DANCE.** (3-3-0). Dance as an art form and as education. Understanding and appreciating its place in society.
- 1510. **INTERMEDIATE JAZZ DANCE.** (2-0-3). Techniques. May be repeated for credit, maximum six hours. Prerequisite: 1110.
- 1520. **INTERMEDIATE BALLROOM DANCE.** (2-0-3). Skills. May be repeated for credit, maximum six hours. Prerequisite: 1120.
- 1530. **INTERMEDIATE FOLK AND ETHNIC DANCE.** (2-0-3). Skills. May be repeated for credit, maximum six hours. Prerequisite: 1140.
- 1550. **INTERMEDIATE TAP DANCE.** (2-0-3). Skills. May be repeated for credit, maximum six hours. Prerequisite: 1150.
- 2050. **RHYTHMIC ANALYSIS AND DANCE ACCOMPANIMENT.** (3-2-2). Rhythm and music structure in relation to dance. Practical application of percussion instrument for dance accompaniment; selection of music for dance. Prerequisite: complete four of the following: 1110, 1120, 1130, 1160, 1170, or 1740.
- 2510. **ADVANCED JAZZ DANCE.** (2-0-3). Techniques and performance. Prerequisite: 1510.
- 2520. **ADVANCED BALLROOM DANCE.** (2-0-3). Performance in preparation for exhibition. Prerequisite: 1520.
- 2530. **ADVANCED FOLK AND ETHNIC DANCE.** (2-0-3). Performance. Prerequisite: 1530.
- 2550. **ADVANCED TAP DANCE.** (2-0-3). Skills and performance. Prerequisite: 1550.
- 2560. **APPRENTICE IN AEROBIC DANCE.** (2-0-3). For student teachers in aerobic dance. Planning, teaching and learning to evaluate physiological changes due to aerobic exercise. Prerequisite: 1560 and consent of instructor.
- 2590. **COMPOSITION I.** (2-1-2). Introductory course for dance composition. Practice in choreography in preparation for performance of works created by student. Prerequisite: 1740.
- 3060. **MOVEMENT FOR ACTORS.** (2-0-3). Creative movement and pantomime for theater and dance majors. Prerequisite: 1140 and consent of instructor.
- 3070. **THEATRICAL DANCE.** (2-0-4). Excerpts of dance choreography from Broadway musicals, television and/or motion pictures. Prerequisite: 1110, 1150 and 1740.
- 3080. **DANCE STAGING.** (3-1-3). Production for dance concerts, including props, sets, costumes, sound, lights, make-up and special effects. Prerequisite: 2590.
- 3590. **DANCE COMPOSITION II.** (2-1-2). Advanced course for dance composition. Practice in choreography in preparation for performance of works created by students. Prerequisite: 2590.
- 4100. **SENIOR CONCERT.** (3-1-4). Major performance project to be staged for public presentation. Creative work, designed and choreographed by the student. Required of the dance performance major. Prerequisite: Senior standing in the curriculum.

For Undergraduates and Graduates

- 4050. **DANCE NOTATION.** (3-3-0). Dance notation systems, including Labanotation and Effort/Shape. Prerequisite: junior standing in curriculum.
- 4060. **DANCE FOR THE HANDICAPPED.** (3-2-2). Adapting dance to the special needs of children with mental retardation, specific learning disabilities and physical handicaps. Prerequisite: 4420 or equivalent.

- 4070. HISTORY OF DANCE.** (3-3-0). From beginnings in primitive societies to the present. Prerequisite: consent of instructor.
- 4420. CREATIVE DANCE FOR CHILDREN.** (3-3-0). Rhythmic activities for children; creative use of rhythm and movement. Methods, materials and actual experiences with children. Prerequisite: senior standing and consent of instructor.
- 4430. CURRENT THEORIES AND PRACTICES IN THE TEACHING OF DANCE.** (3-2-1). Creative use of folk, square, ballroom, tap and modern dance for various age levels. Prerequisite: senior standing and consent of instructor.
- 4500. WORKSHOP IN DANCE.** (1 to 6-6-0). Short-term intensive work with artist-teacher. Content appropriate to instructor and student. Prerequisite: consent of instructor and department head.
Subtitles:
01-ballet
02-jazz
03-ballroom
04-folk and ethnic
05-modern
06-tap dance
- 4620. BALLROOM DANCE EXHIBITION.** (3-1-3). A performing company composed of senior and graduate students selected by audition. Composed, rehearsed and performed by resident and guest faculty. Prerequisite: senior and graduate standing selected by audition.
- 4640. DANCE PRODUCTION.** (3-1-3). A performing company composed of seniors and graduate students selected by audition. Rehearsed and performed by resident and guest faculty. Prerequisite: Senior and graduate advanced dancers selected by audition.
- 4800. PRACTICUM IN DANCE.** (2-0-4). Apprentice teaching in children's and beginning dance classes. To be assigned as needed. Prerequisite: junior standing in curriculum and consent of instructor.
Subtitles:
01-ballet
02-jazz
03-ballroom
04-folk and ethnic
05-modern
06-tap dance

For Graduates Only

- 5050. ACCOMPANIMENT FOR DANCE.** (3-2-2). Theory and practice of musical accompaniment for dance; improvisational techniques. Prerequisite: 2050 or equivalent.
- 5070. PROBLEMS IN DANCE.** (3-3-0). Directed, individual research of selected problems to result in a formal, written paper that may be used in lieu of a thesis. Prerequisite: consent of instructor.
- 5090. DANCE LITERATURE.** (3-3-0). Dance literature for all areas of dance as a performing art and as education.
- 5100. MASTERS CONCERT.** (6-3-4). Design, implementation and completion of a creative project in choreography and/or performance. Concert will be designed with the advice and approval of the dance faculty. Final performance must be presented, written and accepted by the dance faculty in fulfillment of degree requirements. Prerequisite: consent of dance faculty.
- 5110. SEMINAR.** (1 to 3-3-0). Scholarly resources and trends culminating in student presentation of projects examining current issues in dance. Prerequisite: consent of instructor.
- 5120. ADMINISTRATION AND SUPERVISION OF DANCE.** (3-3-0). Recent developments in teaching, administration and supervision of dance including major programs, curricula planning, performance experiences, evaluation and theory. Experience in the development and presentation of lecture-demonstration programs.
- 5130. CURRICULUM DEVELOPMENT IN DANCE.** (3-3-0). Curriculum requirements for all age and skill levels to include all dance forms.
- 5280. ENSEMBLE PERFORMANCE.** (2-0-4). Problems of public performance from the viewpoint of the director-choreographer. Practical experience with scheduled performances. May be repeated for credit. Maximum of four hours may count toward degree. Prerequisite: graduate standing in curriculum.

- 5530. DANCE DIRECTION.** (3-2-2). Dance production forms, lecture demonstration, recital and theater production, involving direction of original solos and group compositions, stage management (as well as lighting, scenery, properties), costuming, make-up, and arranging for dance accompaniment.
- 5540. HISTORY AND PHILOSOPHY OF DANCE.** (3-3-0). The place of dance in education and art. Theories, philosophies and trends in all phases of dance. Prerequisite: 4070 or equivalent.
- 5980. THESIS.** (1 to 6-0-0).

DISTRIBUTIVE EDUCATION (DED)

For Undergraduates Only

- 3810. PRACTICAL EXPERIENCE IN DISTRIBUTIVE OCCUPATIONS I.** (1-0-0). Actual experience working a minimum of 200 hours in approved marketing positions under direction of the teacher educator. Prerequisite: permission of department head and instructor; junior or senior standing; major in Distributive Education.
- 3820. PRACTICAL EXPERIENCE IN DISTRIBUTIVE OCCUPATIONS II.** (1-0-0-). Second semester of practical experience under direction of the teacher educator. Prerequisite: 3810.

For Undergraduates and Graduates

- 4210. DISTRIBUTIVE EDUCATION PROGRAMS.** (3-3-0). Duties and responsibilities of distributive education co-ordinators; facilities, organization and procedures for establishing programs of distributive education. Prerequisites: Education 1020, Educational Psychology 2010, consent of instructor.
- 4230. HUMAN RELATIONS IN DISTRIBUTIVE EDUCATION.** (3-3-0). Human relations and its importance in the educational, occupational, economic, and social activities of an individual involved in the instruction and/or supervision of other persons in office occupations or distributive education. (Same as Business Education 4230.)

For Graduates Only

- 5110. PRACTICAL PROBLEMS IN DISTRIBUTIVE EDUCATION.** (3-3-0). Current problems and proposed solutions; policies and procedures relating to public relations, advertising, selling, product development, competitive pricing, marketing research, marketing efficiency and control; reports on current trends.
- 5920. PROGRAM DEVELOPMENT IN DISTRIBUTIVE EDUCATION.** (3-3-0). Factors bearing upon the issues, principles, patterns, and procedures in the development of high school distributive education curricula.
- 5990. PRACTICUM IN DISTRIBUTIVE OCCUPATIONS.** (1 to 6-0-0). Supervised field experience in an organization engaged in the distribution of goods or services.
- 6010. CURRENT TRENDS AND ISSUES IN DISTRIBUTIVE OCCUPATIONS.** (1 to 3-3-0). Major issues in distributive occupations, opinions of leaders and trends of thought. Prerequisite: 5110 or Business Education 5100 or consent of instructor.
- 6240. IMPROVEMENT OF INSTRUCTION IN DISTRIBUTIVE EDUCATION.** (3-3-0). Selection and improvement of techniques and materials in teaching classroom materials, methods and current trends through a mutual sharing of ideas and experience. Prerequisite: teaching experience and Distributive Education certificate.

EARLY CHILDHOOD EDUCATION (ECED)

For Undergraduates Only

- 1060. INTRODUCTION TO EARLY CHILDHOOD EDUCATION.** (3-3-0). Early childhood education as part of total education. Identification of programs, relevant theories, organizations, opportunities, requirements and ethics.
- 2000. CHILD DEVELOPMENT AND GUIDANCE.** (3-3-0). Physical, mental, social, and emotional development and guidance of a child.
- 2001. CHILD DEVELOPMENT AND GUIDANCE LABORATORY.** (1-0-1). Directed observation and participation in the child development center to include developmentally appropriate assessment.
- 2070. FIELD SERVICE FOR CHILD DEVELOPMENT.** (3 to 6-3-0). Prerequisite: consent of department head.

- 2090. ORGANIZING AND OPERATING PROGRAMS FOR YOUNG CHILDREN.** (3-3-0). The staff's role and responsibility in organizing and operating a child care facility, working with parents in school and home settings, and investigating community resources.
- 3000. THE CHILD'S ENVIRONMENT.** (3-3-0). Planning and evaluating children's housing needs in homes and early childhood settings. Selecting and designing furnishings, equipment, and materials for young children's holistic development.
- 3010. INFANTS AND TODDLERS IN EARLY CHILDHOOD PROGRAMS.** (2-2-0). Focuses on developmentally appropriate caregiving and educational practices for infants and toddlers. Focuses on cultural differences among children and guidelines for caring for children with special needs.
- 3011. INFANTS AND TODDLERS IN EARLY CHILDHOOD PROGRAMS:LABORATORY.** (1-0-2). Directed observation and practical experiences with infants and toddlers.

For Graduates Only

- 5010. ADVANCED CHILD DEVELOPMENT.** (3-3-0). Physical, cognitive and affective development of young children. Prerequisite: 2000 or Educational Psychology 3030.
- 5020. DYNAMICS OF ADULT-CHILD RELATIONSHIPS.** (3-3-0). Application of principles of child and family development to relationships among young children, their parents and teachers.
- 5180. ADMINISTRATION AND ORGANIZATION OF EARLY CHILDHOOD PROGRAMS.** (3-3-0). Philosophy, objectives, and methods of organizing and operating kindergartens, nursery schools, child care centers and play groups for children below six years of age. (Same as Educational Leadership.)
- 5190. ADVANCED EARLY CHILDHOOD CURRICULUM.** (3-3-0). Curriculum and methods of teaching pre-primary programs. Prerequisite: six hours in child development and/or child psychology. (Same as Education 5190.)
- 5430. INFANTS AND TODDLERS.** (3-3-0). Development, care and education of infants and toddlers in families and group settings.
- 5450. CHILDREN'S CENTERS.** (3-3-0). Problem-solving activities in housing and equipping an early childhood program; designing learning centers.
- 5460. TRENDS AND ISSUES IN EARLY CHILDHOOD EDUCATION.** (3-3-0). Trends, research, and issues; literature; application and implications for early childhood programs.
- 5470. PRACTICUM IN EARLY CHILDHOOD EDUCATION.** (3-3-0). Individualized program under supervision and guidance; practical experience in organized programs for the child below six. Work with adults, college students, and children. (Same as Education 5470.)
- 5930. SPECIAL PROBLEMS IN EARLY CHILDHOOD EDUCATION.** (3-3-0). Independent study; analysis and compilation of research in an area of early childhood education as approved by the instructor.
- 5950. RESEARCH PROBLEMS.** (1 to 6-0-0). Non-degree credit. May be repeated. Same as Family and Consumer Sciences 5950.
- 5980. THESIS.** (1 to 6-0-0). Same as Family and Consumer Sciences 5980.

ECONOMICS (ECON)

For Undergraduates Only

- 2000. PRINCIPLES OF MACROECONOMICS.** (3-3-0). A survey of economic principles governing the behavior of the aggregate economy. It addresses the problem of how fiscal and monetary authorities promote price level stability and economy growth. For business majors who take both Economics 2000 and 1010, it is recommended that Economics 2000 be taken first. For non-business majors who take only one course in economics, this course is recommended. Prerequisite: sophomore standing.
- 2010. PRINCIPLES OF MICROECONOMICS.** (3-3-0). A survey of economic principles governing the behavior of individual households and business firms and the markets for specific goods. It addresses the problems of how market prices influence the allocation of society's scarce resources and the distribution of income among its members. For business majors who take both Economics 2000 and 1010, it is recommended that Economics 2000 be taken first. For non-business majors who take only one course in economics, Economics 2000 is recommended. Prerequisite: sophomore standing.
- 3100. MONEY AND BANKING.** (3-3-0). Origin, development, and functions of money; basic monetary theory; financial institutions of the U.S. and how they affect the volume of spending. (Same as Finance 3100). Prerequisite: 2000, 2010

- 3110. **PUBLIC FINANCE.** (3-3-0). Rationale for government's role in a market economy. Fundamental analysis of government expenditures, receipts, budgets, intergovernmental relations, fiscal policy and techniques of program evaluation. Prerequisite: 2000 and 2010.
- 3160. **BUSINESS AND PUBLIC POLICY.** (3-3-0). Relationships between government and business; government as regulator, subsidizer, partner, and competitor of private enterprise; changing nature of the American economic system. Prerequisites: 2000, 2010
- 3200. **INTERMEDIATE PRICE THEORY.** (3-3-0). Theories of price determination under various market conditions, e.g., competition and monopoly; pricing of products, factors of production and their interrelationships; functional distribution of income. Prerequisites: 2000 and 2010.
- 3300. **MACROECONOMIC ANALYSIS.** (3-3-0). Intermediate examination of aggregate theory with emphasis on social income accounting and functional relationships between important aggregate variables; social policy implications of aggregate adjustments and their application to forecasting. Prerequisite: 2000 or consent of instructor.
- 4060. **DIRECTED INDIVIDUAL STUDY.** (3-3-0). A faculty-directed readings and writing course on areas such as environmental economics, law and economics, health economics, economics and the journalist, economics of the learning production process, forensic economics, etc. Consent of instructor and senior standing.
- 4070. **HISTORY OF ECONOMIC THOUGHT AND THE DEVELOPMENT OF ECONOMIC SYSTEMS.** (3-3-0). Comparison of the social and philosophical bases of current economic systems, the problems associated with central planning and free market allocation and the history of these practices in selected modern national states, especially the U. S., Britain and Russia. Prerequisites: 2000 and 2010.
- 4120. **PROBLEMS OF ECONOMIC DEVELOPMENT.** (3-3-0). Problems related to economic development with emphasis on stages of development and problems of growth. Prerequisites: 2000, 2010.
- 4160. **INTERNATIONAL TRADE.** (3-3-0). Pure and monetary theories of international trade; problems in international monetary equilibrium. Prerequisites: 2000 and 2010.
- 4500. **INTRODUCTION TO ECONOMETRICS.** (3-3-0). Mathematical formulation and statistical estimation of structural parameters of single equation economic models. Prerequisites: 2000, 2010, Mathematics 2010, and Business Administration 2120.
- 4510. **BUSINESS FORECASTING.** (3-3-0). Techniques of forecasting and use of information from macroeconomic forecasts to make forecasts for the firm. Prerequisite: 4500.

EDUCATION (EDUC)

For Undergraduates Only

- 1030. **SEMINAR FOR TEACHER AIDES.** (3-3-0). Problem-oriented course for students employed as teacher aides. Problems identified by teacher aides and their supervisors; group discussion, individual conferences, laboratory experiences.
- 1380. **PROBLEMS IN EDUCATION.** (1 to 3-1 to 3-0).
- 2000. **PRINCIPLES OF MIDDLE SCHOOL EDUCATION.** (3-3-0). Principles and philosophical bases of teaching the middle or junior high school level.
- 2020. **FOUNDATIONS OF EDUCATION.** (3-3-0). Historical, social, philosophical foundations of education; school organization and administration; opportunities, requirements, and ethics in the teaching profession; observation and participation in schools.
- 2200. **PRACTICUM FOR TEACHER AIDES.** (6-0-18). Experience as an aide in elementary or secondary school three hours daily. Extra-class duties and attending conferences arranged by cooperating teachers and college supervisors. Prerequisite: 1030, 2020, Educational Psychology 3010, 3030, or 3040.
- 2380. **PROBLEMS IN ELEMENTARY EDUCATION II.** (3-3-0). Applicable for a degree in elementary education as electives for individuals in the Career Opportunities Program. Prerequisite: permission of the department head.
- 2500. **TUTORING THE EDUCATIONALLY DISADVANTAGED.** (3-0-6). Experience in tutoring the educationally disadvantaged six clock hours per week in subjects such as developmental reading, writing, and mathematics. Extra-class duties may include participation in seminars and conferences arranged by the cooperating agency and the university supervisor.
- 3020. **CLASSROOM MANAGEMENT STRATEGIES.** (1-1-0). Practical knowledge and application of classroom management strategies for all students. Prerequisites: Education 2020, Educational Psychology 3000, 3010.

- 3110. METHODS OF PRE-SCHOOL TEACHING.** (3-3-0). Problems in teaching at the pre-school level, techniques in teaching procedures, teaching aids, literature for teachers, guidance, and parent education. Observation and participation experiences at nursery and kindergarten levels. Prerequisite: admission to candidacy for the degree in teacher education, 3050 and Educational Psychology 3000 and 3010-3011 or consent of the department head.
- 3111. METHODS OF PRE-SCHOOL TEACHING LABORATORY.** (1-0-2). Directed observation of classroom management techniques and practical experience in planning and executing lesson plans in kindergarten settings. Minimum of two hours weekly in classroom and weekly critique meetings scheduled with supervisor. Prerequisite: to be taken concurrently with 3110.
- 3120. METHODS IN MAJOR TEACHING FIELD-ELEMENTARY VOCAL.** (2-3-1). Materials, methods, and observation-participation of elementary school classes. Prerequisite: admission to candidacy for a degree in teacher education.
- 3140. PRINCIPLES OF TEACHING.** (3-3-0). Theory, organization and practice of generic teaching skills. Techniques of planning, instruction, media, evaluation, classroom management, and microcomputers in teaching. Prerequisite: admission to candidacy in teacher education; Educational Psychology 3000 and 3010.
- 3380. PROBLEMS IN ELEMENTARY EDUCATION III.** (3-3-0). Applicable for a degree in elementary education as electives in the Career Opportunities Program. Prerequisite: permission of the department head.
- 4010. SECONDARY SCHOOL TEACHING METHODS.** (3-3-2).
 Subtitles:
 01-art
 03-business and office education
 05-distributive and business education
 07-English
 09-general science
 10-home economics, vocational
 11-industrial arts
 13-mathematics
 14-music, instrumental
 15-music, vocal
 16-physical education
 19-social science
 20-speech
 22-special education
 Application of special methods to the teaching process; emphasis on effective teaching strategies, classroom management and discipline, instructional clarity, pluralistic and exceptional populations. Includes a 30-hour field-based practicum with supervising teacher in secondary content area classroom. Prerequisite: Admission to candidacy for degree in teacher education; completion of 3140 with a grade of C or better.
- 4020. STUDENT TEACHING IN SECONDARY SCHOOLS.** (3 to 12-0-6 to 24). Planning, teaching and observing in high school three to six hours daily; participating in extra-class duties and attending conferences arranged by cooperating teachers and/or college supervisors. Prerequisite: admission to candidacy in teacher education; application for assignment in student teaching.
 Subtitles:
 01-secondary art
 02-biology
 03-business and office education
 04-chemistry
 05-distributive education
 06-earth sciences
 07-English
 09-general science
 10-home economics, vocational
 11-industrial arts
 13-mathematics
 14-secondary music, instrumental
 15-secondary music, vocal
 16-secondary physical education
 18-physics
 19-social studies

- 20-speech
- 21-practicum in secondary library science
- 22-special education mild/moderate

4030. CONTENT AND TECHNIQUES OF TEACHING IN THE ELEMENTARY SCHOOL. (3 to 4-2 to 3-3). Organization of materials; procedures; teaching aids; trends and evaluation. Courses in each major content area of the elementary school indicated by subtitles below and must be taken in the methods block. Prerequisite: admission to candidacy for a degree in teacher education; completion of 3140 with a grade of C or better; corequisite: Reading 4070.

Subtitles:

- 02-mathematics (4-3-3).
- 03-science (3-2-3).
- 04-social studies (3-2-3).

4040. STUDENT TEACHING IN THE ELEMENTARY SCHOOL. (6 to 12-0-12 to 25). Observing, planning, and teaching in elementary schools a minimum of five hours daily. Students schedule according to certification areas from subtitles below. Prerequisites: 2020, 3140, 4030; Educational Psychology 3000, 3010; corequisite: Education 4210; admission to candidacy in teacher education; application for student teaching.

Subtitles:

- 01-elementary (1-8)
- 02-elementary (1-4)
- 03-elementary (5-8)
- 04-elementary special education mild/moderate
- 05-elementary music, instrumental
- 06-elementary music, vocal
- 07-practicum-infants/toddlers
- 08-practicum-kindergarten/preschool
- 09-practicum-kindergarten
- 10-practicum-elementary library science

4080. LITERATURE AND LANGUAGE IN THE ELEMENTARY SCHOOL. (3-2-3). Approaches and strategies for using literature as the basis for the language arts program and as a framework throughout the curriculum. Organization of materials; procedures; teaching aids; evaluation. Prerequisite: admission to candidacy for a degree in teacher education; completion of Reading 3060 with a grade of C or better; corequisite: Reading 4070; Education 4030-02/4230, 4030-03/4330, 4030-04/4430.

4210. SEMINAR IN ELEMENTARY TEACHING AND CLASSROOM MANAGEMENT. (3-3-0). Group discussions, individual conferences, reading and research on problems identified by students or cooperating teachers during student teaching related to teaching and classroom management in elementary schools. Corequisite: Education 4040. Prerequisite: admission to candidacy in teacher education.

4230. CONTENT AND TECHNIQUES OF TEACHING MATHEMATICS IN THE ELEMENTARY SCHOOL. (3-2-3). Organization of materials; teaching methodology/strategies, procedures, teaching aides, trends and student assessment issues in mathematics for the elementary school teacher. Prerequisites: admission to candidacy for a degree in teacher education; Education 3140 and Reading 3060 with C or better; co-registration in Reading 4070, Education 4130, 4330, 4430, 4140.

4310. SEMINAR IN SECONDARY TEACHING. (3-3-0). Group discussion, individual conference, reading, and research on problems relating to teaching in secondary school. Problems identified by students or cooperating teachers during student teaching. Corequisite: 4020. Prerequisite: admission to candidacy in teacher education.

4330. CONTENT AND TECHNIQUES OF TEACHING SCIENCE IN THE ELEMENTARY SCHOOL. (3-2-3). Organization of materials; teaching methodology/strategies, procedures, teaching aides, trends and student assessment issues in science for the elementary school teacher. Prerequisites: admission to candidacy for a degree in teacher education; Education 3140 and Reading 3060 with C or better; co-registration in Reading 4070, Education 4130, 4230, 4430, 4140.

4430. CONTENT AND TECHNIQUES OF TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL. (3-2-3). Organization of materials; teaching methodology/strategies, procedures, teaching aides, trends and student assessment issues in social studies for the elementary school teacher. Prerequisites: admission to candidacy for a degree in teacher education; Education 3140 and Reading 3060 with C or better; co-registration in Reading 4070, Education 4130, 4230, 4330, 4140.

For Undergraduates and Graduates

- 4140. UPPER ELEMENTARY CURRICULUM AND INSTRUCTIONAL STRATEGIES.** (3-3-0). Upper Elementary Curriculum and Instructional Strategies. Basic concepts underlying the middle school; the unique learning and social needs of the adolescent; creative application of teaching strategies and instructional tactics; flexible scheduling and administrative practice. Pre-requisite: admission to teacher candidacy.
- 14150. TRAINING AND UTILIZATION OF TEACHER-AIDES IN THE PUBLIC SCHOOLS.** (1 to 3-3-0). Role of teacher-aides; training, abilities needed, and responsibilities to pupils, teachers, parents, school and community.
- 4160. MULTICULTURAL EDUCATION.** (3-3-0). Effects of sub-cultures in a pluralistic society on the schooling enterprise.
- 14200. REFRESHER IN SPECIAL FIELDS.** (1 to 9-3-0). Designed to help teachers in learning experiences for students at junior or senior high school level. Examination of material and consideration of methods of teaching in light of student needs.
- 14240. PROBLEMS IN CURRICULUM AND INSTRUCTION.** (1 to 6-3-0). Purposes and content. Credit in institutes, workshops, short courses or in-service education.
- 24250. INSTRUCTIONAL PROCESSES.** (3-3-0). Practical application of instructional techniques for beginning teachers: decision making in teaching; mastery learning; effective classroom techniques; and student and teacher relationships. Prerequisite: baccalaureate degree; graduate educational psychology course; or consent of instructor.
- 24300. APPLICATION OF INSTRUCTIONAL PROCESSES.** (3 to 5-0-6 to 10). An advanced course in application of teaching methodologies in relation to the learning processes at the level of certification sought. Instructional material evaluation and use; effective classroom techniques; problem-solving teaching; and professional practices. Prerequisites: baccalaureate degree; appropriate scores on NTE, general knowledge and communications skills.
- 14350. ADVANCED STUDIES IN TEACHING.** (3-3-0). Advanced inquiry into application of instructional techniques in secondary classrooms. Application of motivation in the teaching process; curriculum planning and evaluation; managing effective classrooms; and evaluating and reporting pupil progress. Prerequisite: 4250 or consent of instructor.
- 4400. EDUCATIONAL COMPUTING FOR TEACHERS AND ADMINISTRATORS.** (1-1-0). Special topics in educational computing for teachers and administrators are designed to introduce and provide practice in the use of software applications for networked educational computing systems. Topics included will meet the needs of preservice and inservice teacher education students and school administrators. Prerequisite: admission to teacher candidacy, teacher certification, or consent of instructor.
- 4450. EDUCATION AND SOCIETY.** (3-3-0). Examines the complex relationships between public schooling and dominant and nondominant social groups. Course readings range from classics in the sociology of education to contemporary writings, with emphasis on development of perspectives throughout history and current issues and concerns, including race, class, and gender. Prerequisite: completion of University core requirements in English, social sciences, junior standing or consent of instructor.
- 14500. SPECIAL PROBLEMS IN LANGUAGE ARTS INSTRUCTION IN THE ELEMENTARY SCHOOL.** (1 to 9-3-0). Problems uniquely related to methods and materials of instruction in language arts, grades 1-8.
- 14510. SPECIAL PROBLEMS IN LANGUAGE ARTS INSTRUCTION IN THE HIGH SCHOOL.** (1 to 3-0-0). Problems related to methods and materials of instruction in language arts, grades 9-12.
- 14520. SPECIAL PROBLEMS IN MATHEMATICS INSTRUCTION IN THE ELEMENTARY SCHOOL.** (1 to 3-0-0). Problems related to methods and materials of instruction in mathematics, grades 1-8.
- 14530. SPECIAL PROBLEMS IN SCIENCE INSTRUCTION IN THE ELEMENTARY SCHOOL.** (1 to 3-3-0). Problems related to methods and materials of instruction of science in grades 1-8.
- 14540. SPECIAL PROBLEMS IN SOCIAL STUDIES INSTRUCTION IN THE ELEMENTARY SCHOOL.** (1 to 3-3-0). Problems related to methods and materials of instruction in social studies, grades 1-8.
- 14570. SPECIAL PROBLEMS IN MATHEMATICS.** (1 to 3-1 to 3-0). Problems related to methods and materials of instruction of mathematics, grades 9-12.
- 14580. SPECIAL PROBLEMS IN SCIENCE.** (1 to 3-1 to 3-0). Problems related to methods and materials of instruction of science, grades 9-12.

- 14590. SPECIAL PROBLEMS IN SOCIAL STUDIES.** (1 to 3-1 to 3-0). Problems related to methods and materials of instruction of social science, grades 9-12.
- 24620. INTERNSHIP IN TEACHING.** (3 to 9-0-6 to 18). Teaching in area(s) of specialization under the cooperative supervision of the school and university supervisor. Systematic supervision and evaluations by the school and university supervisors, and participation in seminars or conferences. Prerequisites: Baccalaureate degree, completion of methods course, and an approved application for the internship.
Subtitles:
01-secondary teaching
02-elementary teaching
03-special education
- 4840. TELEVISUAL EDUCATION.** (3-3-0). Explores meaning production and signification in broadcast television programming and commercials, and the relation between television and public education. Specific techniques for disassembling the meanings of television, including empirical research, auteur theory, genre study, semiotics, and ideological criticism are investigated. Prerequisite: completion of University core requirements in English and social sciences, junior standing, or consent of instructor.

¹ May not be used to satisfy graduate degree requirements.

² May not be used to satisfy baccalaureate or graduate degree requirements.

For Graduates Only

- 5010. EDUCATIONAL RESEARCH AND EVALUATION.** (3-3-0). Qualitative and quantitative approaches to organization, design, implementation and interpretation of empirical research in behavioral sciences; preparation of research proposals; evaluation of proposals and reports. Prerequisite: admission to graduate study; Educational Psychology 4400 or consent of instructor. (Same as Educational Psychology 5010).
- 5020. RESEARCH ON CURRICULUM AND INSTRUCTION.** (3-3-0). Review, interpretation and synthesis of research on school curriculum and instructional models, methods and strategies; implementation of research outcomes in educational settings; preparation of research reports. Prerequisite: 5010 or consent of instructor.
- 5030. EDUCATIONAL PHILOSOPHY AND LEADERSHIP.** (3-3-0). Philosophical, sociological, and historical foundations of education; educational organization and management; leadership strategies; and trends and issues in the development of educational programs.
- 5040. LIBRARY MATERIALS FOR CHILDREN.** (3-3-0). Standard and contemporary books and audiovisual materials needed to support the curriculum and provide recreational reading. (Same as Library Education 5020.)
- 5090. IMPROVEMENT OF INSTRUCTION IN THE LANGUAGE ARTS.** (3-3-0). Practices and trends in teaching language arts in elementary school. Prerequisite: teaching experience or an undergraduate course in teaching the language arts.
- 5160. PRINCIPLES OF CURRICULUM DEVELOPMENT.** (3-3-0). Principles and practices of curriculum development with opportunities to participate in curriculum construction.
- 5310. IMPROVEMENT OF INSTRUCTION IN ELEMENTARY SCHOOL SOCIAL STUDIES.** (3-3-0). Derivation of methods and techniques from principles of learning; development of skills in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.
- 5320. IMPROVEMENT OF INSTRUCTION IN ELEMENTARY SCHOOL MATHEMATICS.** (3-3-0). Derivation of methods and techniques from principles of learning; development of skills in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.
- 5330. IMPROVEMENT OF INSTRUCTION IN ELEMENTARY SCHOOL SCIENCE.** (3-3-0). Derivation of appropriate methods and techniques from principles of learning; development of skills in cooperative planning; choosing and organizing teaching materials; using the environment; guidance; evaluation procedures. Prerequisite: teaching experience, or an undergraduate methods course in the subject.

- 5340. DIAGNOSTIC TEACHING OF ELEMENTARY SCHOOL MATHEMATICS.** (3-3-0). Causation in algorithmic and problem-solving difficulties; laboratory experience with diagnostic instruments and procedures; materials and procedures for corrective instruction. Prerequisite: 5320 or consent of instructor.
- 5360. ENHANCING SOCIAL STUDIES THROUGH LITERACY STRATEGIES.** (3-3-0). Approaches and strategies for integrating literacy and whole language with social studies content and processes. Application of techniques and activities in the elementary classroom. Prerequisite: teaching experience, an undergraduate methods course in social studies or language arts, or permission of the instructor.
- 5470. PRACTICUM IN EARLY CHILDHOOD EDUCATION.** (3-3-0). Individualized program under supervision; practical experience in organized programs for the child below six. Work with adults, college students, and children. (Same as Early Childhood Education 5470.)
- 5600. PRINCIPLES OF INSTRUCTIONAL DESIGN.** (3-3-0). Theory of instructional design as derived from human learning principles. Techniques of designing instructional materials, media selection, and evaluation of instruction. Prerequisite: admission to graduate school.
- 5610. SEMINAR IN INSTRUCTION METHODOLOGY.** (3-3-0). Current issues, problems, and research in instructional methodology with opportunities for investigation of special problems. May be repeated for maximum of six hours. Prerequisite for (01): admission to graduate school and appropriate scores on the National Teacher Examination, general knowledge and communication skills, 5600. Prerequisite for (02): 5610 subtitle 01.
Subtitles:
01-Seminar I
02-Seminar II
- 5800. DESIGN AND IMPLEMENTATION OF INSTRUCTIONAL SYSTEMS.** (3-3-0). Theory, design and application of instructional systems; systems theory; flowcharting; task analysis; quality control. Prerequisite: 5300, 5160 or consent of instructor.
- 5950. RESEARCH PROBLEMS.** (3-0-0). Maximum of six hours toward degree. Design, organization, and implementation of a research or development project under the direction of the student's major professor. Written report and evaluation required. Prerequisites: successful completion of two-thirds of degree program, 5010 or equivalent, and approval of major professor.
- 5980. THESIS.** (3-0-0). Maximum of six hours toward degree. Prerequisite: successful completion of two-thirds of degree program, and approval of major professor.
- 5990. FIELD STUDY IN EDUCATION.** (3-0-0). Maximum of six hours toward degree. Student will originate, develop, field-test and evaluate a project designed to investigate an educational problem and evaluate a project designed to investigate an educational problem in the public schools. Project must have the approval of the student's advisory committee. This course will be taught by the student's major professor. At the master's level, the course is restricted to the Local Education Agency-Based Academic Plan. Prerequisites: successful completion of two-thirds of degree program, and approval of the major professor and the student's advisory committee.
- 6040. EXPERIMENTAL CURRICULUM DESIGNS IN EDUCATION.** (3-3-0). Educational objectives and modern means through which they may be achieved. New educational media and techniques of organization for learning.
- 6130. SCHOOL LAW.** (3-3-0). Principles and practices of law applied to public school, study of generic school law, and study of Louisiana school law. (Same as EDL 6130.)
- 6340. SEMINAR IN ELEMENTARY EDUCATION.** (3-3-0). Current issues, problems, and research in elementary education with opportunities for investigation of special problems. May be repeated for a maximum of six hours.
- 6450. CONTEMPORARY ISSUES IN EDUCATION.** (3-3-0). Issues, movements, and personalities affecting educational thought and practice. Prerequisite: consent of instructor. (For advanced graduate students.)
- 6700. ADVANCED EDUCATIONAL RESEARCH.** (3-3-0). Selected educational research methods and techniques; emphasis on research design applied to behavioral investigation. Prerequisite: 5010 or equivalent and Educational Psychology 6420 or equivalent.
- 6850. ADVANCED QUALITATIVE RESEARCH.** (3-3-0). Considers major types of educational research with focus on knowledge and skills necessary for ethnographic, semiotic, phenomenological, historiographic, autobiographical and case study research; observation, interviewing, and other data collection procedures, as well as analysis techniques, reporting procedures, and ethical concerns. Prerequisites: 6840, Educational Psychology 6420.

- 6860. ADVANCED QUANTITATIVE RESEARCH.** (3-3-0). Basic premises of experimental design; fundamental assumptions of analysis of variance; multiple comparison tests; randomized factorial designs; hierarchical designs; confounded designs; fractional designs and other advanced designs; statistical procedures and their relationship to design issues. Prerequisites: 6840 or equivalent or permission of instructor, Educational Psychology 6420.
- 7840. DESIGN AND IMPLEMENTATION OF EDUCATIONAL RESEARCH.** (3-3-0). Review of major types of educational research, underlying research paradigms and associated analysis techniques. Examination of "threats to validity" in experimental and quasi-experimental designs, choosing between qualitative and quantitative approaches, consideration of mixed designs such as planned critical multiplisms, dealing with human subjects, "trouble shooting" the research process, and reporting results. Development of a research proposal, presentation of a proposal defense, and a course portfolio. Prerequisites: Education 6860 or Educational Psychology 6420.

EDUCATION - ADULT AND CONTINUING (EADAE)

For Undergraduates and Graduates

- 4700. FUNDAMENTALS OF TEACHING ADULT EDUCATION.** (3-3-0). Conditions of learning through the lifespan and within a variety of cultural settings. Emphasis is given to the literature of adult learning as a distinct discipline and the diversity of forms of learning an adult's life.
- 4720. MATERIALS AND METHODS IN TEACHING ADULT EDUCATION.** (3-3-0). Selection and utilization of materials and techniques appropriate to the educational needs of adults in their various life roles as economic contributors, family members, and individuals in society. Prerequisite: senior standing or above. 4730.
- 4730. READING INSTRUCTION IN ADULT EDUCATION.** (3-3-0). Identification of reading skills; evaluation of reading skills; evaluation of reading skills; evaluation of reading achievement; diagnosis of specific problem areas; developing instructional materials and methodology.
- 4740. PRACTICUM IN ADULT AND COMMUNITY EDUCATION.** (3-0-15) Appropriate placement at adult and community education sites for laboratory and field experience. Directed research required at graduate level.

For Graduates Only

- 5730. ORGANIZATION AND ADMINISTRATION OF ADULT EDUCATION CLASSES.** (3-3-0). Design and delivery of instruction for adults in many formats and settings. Facilitating learning through technology. Legal, ethical, and financial considerations of instructional design.
- 5750. PROGRAM DEVELOPMENT PROCESS IN ADULT AND CONTINUING EDUCATION.** (3-3-0). Designing, maintaining, and improving organizations and complex programs in continuing and adult education. Identification of communities of interest and stakeholders, needs assessment, long range planning, and evaluation are included.

EDUCATIONAL LEADERSHIP (EDL)

For Graduates Only

- 5100. PUBLIC SCHOOL ORGANIZATION AND ADMINISTRATION.** (3-3-0). National, state and local administration, organization of public education; instructional leadership; administration of special services; pupil personnel administration; financial and business administration; school plant administration; administration of school-community relations.
- 5110. SUPERVISION OF INSTRUCTION.** (3-3-0). Science and techniques of supervision; observation of teaching; demonstration teaching; evaluation of supervision.
- 5140. THE SECONDARY SCHOOL PRINCIPALSHIP.** (3-3-0). Duties and responsibilities of the secondary principal in organization, leadership, administration and supervision; professional growth; relationship to school, teachers, and patrons.
- 5150. SUPERVISION OF STUDENT TEACHING.** (3-3-0). Philosophy, science, and technique of supervising student teachers, observing cooperating teachers; demonstration teaching, evaluating student teaching.
- 5190. PROBLEMS IN EDUCATIONAL ADMINISTRATION.** (3-3-0). Current issues in school administration.
- 5290. THE VISITING TEACHER.** (3-3-0). Principles and practices of census, child welfare and attendance for the visiting teacher. (Required for Louisiana certification as Visiting Teacher.)

- 5350. ADMINISTRATION OF THE ELEMENTARY SCHOOL.** (3-3-0). Duties and responsibilities of the elementary school principals in organization, leadership, administration and supervision; principal's professional growth and their relationships to school, teachers, and patrons.
- 6100. SCHOOL FACILITIES AND EQUIPMENT.** (3-3-0). Planning functional school buildings; educational specifications, site selection, plant construction, equipment, operation, and maintenance. Prerequisite: 5100.
- 6110. PUBLIC SCHOOL FINANCE.** (3-3-0). Fiscal program of the public school; local, state, and federal taxes; budgeting; bond issues, formulas for distribution of school funds. Prerequisite: 5100.
- 6120. SCHOOL PERSONNEL ADMINISTRATION.** (3-3-0). Principles and practices of administration in selecting and retaining school personnel. Placement, job analysis and evaluation, salaries and salary schedules, fringe benefits, maintenance of morale. Prerequisite: 5100.
- 6130. SCHOOL LAW.** (3-3-0). Principles and practices of law applied to the public school, study of generic school law, and study of Louisiana school law. Prerequisite: 5100. (Same as Education 6130.)
- 6140. SCHOOL COMMUNITY RELATIONS.** (3-3-0). Principles and practices of public relations in education, development of school and community understanding through interaction, utilization of community and human resources for improvement of public education. Prerequisite: 5100.
- 6150. SEMINAR IN EDUCATIONAL ADMINISTRATION.** (3-3-0). Readings and research in educational administration, with opportunities for members of the group to make individual investigation of special problems. Prerequisite: 5100.
- 6180. INTERNSHIP IN SCHOOL ADMINISTRATION/SUPERVISION.** (6-0-18). The individual according to area of specialization is provided practical experience by being assigned to a principal, supervisor, or superintendent, under supervision of a staff member from the University. Prerequisite: 5100, 5140, 6130, or 5350 and Education 5010, written consent of department head and selected administrator.
- 6500. EDUCATIONAL TORT.** (3-3-0). Principles and practices associated with torts and strict liability as related to the operation of public school systems. The principle of strict liability will be applied to the school setting. Responsibility of both the individual and school administration will be considered.
- 7000. MANAGEMENT OF EDUCATIONAL CHANGE.** (3-3-0). Examines the mechanisms the organization uses to respond to and initiate changes in internal and external environment. Specific processes include organizational development (OD), intervention theory and research, organization effectiveness, proactive change strategies; the role of change agent is considered within each process.
- 7010. PRACTICUM: MANAGEMENT OF EDUCATIONAL CHANGE.** (3-0-15). Applies the mechanisms a specific organization will use to respond to and initiate change in its environment. Provides opportunity to apply specific processes and extend research accomplished in Educational Leadership 7000. Prerequisite: 7000.
- 7120. EDUCATIONAL POLICY ANALYSIS AND IMPLEMENTATION.** (3-3-0). Introduction to formation and analysis of policies within educational institutions; policy construction in relation to implementation. Role of technology in instructional policy process.
- 7130. LEGAL AND FISCAL ISSUES OF TECHNOLOGY MANAGEMENT.** (3-3-0). Managerial responsibilities related to making decisions concerning technology management. Emphasis is placed on assessing the present status of technology development with a focus on developing future programs and services. Technology budgets, legal policy, and funding procedures will be explored.

EDUCATIONAL MEDIA

For Undergraduates Only

- 1080. PREPARATION OF EDUCATIONAL MEDIA.** (3-2-2). Preparing print and non-print materials for the teaching-learning process. Laboratory use of machines and equipment for preparation of instructional materials. For teacher aides and associate degree candidates only.
- 3080. METHODS IN EDUCATIONAL MEDIA.** (3-3-0). Selection and utilization of instructional materials, pictorial and graphic media, recordings, motion pictures, television; laboratory experience in display and presentation techniques including equipment operations.
- 3081. METHODS IN EDUCATIONAL MEDIA LABORATORY.** Credit only. Supervised laboratory to augment 3080.

EDUCATIONAL PSYCHOLOGY (EPSY)

For Undergraduates Only

- 3000. EDUCATIONAL PSYCHOLOGY AND STUDENT ASSESSMENT.** (3-3-1). Psychological principles of teaching and the educational process; nature of student appraisal and assessment; learning process including conditions which affect the learning process; basic assessment and learning theory; pertinent principles and facts of general psychology; and general introduction to personality adjustment/maladjustment of the child and adolescent. Prerequisite: second semester sophomore standing or above.
- 3010. CHILD AND ADOLESCENT PSYCHOLOGY.** (3-3-0). Physical, mental, social-emotional development and behavior; personality development and/or adjustment/maladjustment emphasizing normal adjustment; motivation, interest, capacities with emphasis upon the developmental process of childhood and adolescence and general assessment of these areas. Prerequisite: 3000, and for teacher education majors, admission to candidacy for a degree in teacher education.

For Undergraduates and Graduates

- 4400. STATISTICS FOR PSYCHOLOGY AND EDUCATION.** (3-3-0). Statistical procedures as applied to psychological and educational research and measurement. Prerequisite: 3000 or Psychology 1010.
- 4420. EVALUATION AND REPORTING IN EDUCATION.** (3-3-0). Basic principles of measurement and analysis of human traits – ability, achievement, sociometric status; uses, misuses, interpretation of tests, rating scales; group and individual discussion of evaluation results with pupils and parents. Prerequisite: 3000 or Psychology 1010.
- 4430. MENTAL HEALTH IN EDUCATION.** (3-3-0). Positive goals of mental health, personal and social adjustment of child and educator in the school setting; interpersonal assessment of pupils' personalities, classroom management, group morale and cohesion and teacher adjustment.

For Graduates Only

- 5010. EDUCATIONAL RESEARCH AND EVALUATION.** (3-3-0). Qualitative and quantitative approaches to organization, design, implementation and interpretation of empirical research in behavioral sciences; preparation of research proposals; evaluation of proposals and reports. Prerequisite: admission to graduate study; 4400 or consent of instructor. (Same as Education 5010).
- 5370. BEHAVIORAL MANAGEMENT AND MODIFICATION.** (3-2-1). Principles and application of behavior modification techniques to learning, behavior, and emotional problems in the school setting. Prerequisite: six hours educational psychology or equivalent.
- 5410. PSYCHOLOGY OF LEARNING AND TEACHING.** (3-3-0). Theories and principles of learning and teaching; applications to human training and education. Prerequisite: consent of instructor.
- 5420. PSYCHO-EDUCATIONAL ASSESSMENT.** (3-2-1). Construction, validation, and standardization of measuring instruments; achievement and aptitude tests, attitude, and ratings scales. Prerequisite: 4420, or 5520 and at least the equivalent of a minor in either psychology or education; or consent of instructor.
- 5460. DYNAMICS OF HUMAN GROWTH AND DEVELOPMENT.** (3-3-0). Principles of developmental psychology; integrated nature of growth and lifespan development; dynamics of human development in the social context; topics of interest to professionals working with individuals or groups on a regular basis. Prerequisite: 3010.
- 5470. SEMINAR IN EDUCATIONAL PSYCHOLOGY.** (1 to 3-1 to 3-0). May be repeated for credit. Reading and research on topics and issues in educational psychology. Prerequisite: 5410, 5460, Education 5010, or consent of the instructor.
- 5520. ANALYSIS OF THE INDIVIDUAL.** (3-2-1). Techniques and materials available for study of the individual; interpretation and synthesis of individual inventory data and their application to the counseling process. Prerequisite or corequisite: 4400 or consent of instructor.
- 6420. ANALYSIS OF VARIANCE.** (3-2-1). Characteristics of normal distribution; sampling theory; analysis of variance decision theory. Prerequisite: 4400 or equivalent.

EDUCATIONAL TECHNOLOGY (ETEC)

For Undergraduates and Graduates

- 4810. INTRODUCTION TO COMPUTERS IN EDUCATION.** (3-3-0). A computer literacy course designed to introduce the use of the computer as an instructional tool, management tool, and personal productivity tool for the teachers. Topics include hardware/software selection, CAI, CMI, application software, programming, legal, and ethical issues regarding computer use in education. Prerequisite: admission to teacher candidacy, teacher certification, or consent of instructor.
- 4820. EVALUATION AND USE OF COMPUTERS IN EDUCATION.** (3-1-4). Use and evaluation of popular computer technology in education and teaching; hardware and software evaluation and use; concepts and terminology; input and output devices; systems design; systems support; CAI; CMI; ACA. Prerequisites: 4810 or equivalent; teaching experience; an undergraduate methods course or consent of instructor.
- 4830. INTRODUCTION TO EDUCATIONAL PROGRAMMING.** (3-3-0). An overview of popular educational programming languages such as Logo, BASIC, and Pascal will be used to teach program design, syntax, editing, and documentation. Additional topics include instructional strategies and the development of programming activities for the classroom. Prerequisite: Education 4810, admission to teacher candidacy, teacher certification, or consent of instructor.
- 4850. TECHNOLOGY TO SUPPORT STANDARDS-BASED TEACHING AND LEARNING.** (3-3-0). Applications of information technology networking to support preservice and inservice instruction in standards-based curricular areas for elementary, middle, and secondary school personnel. Prerequisite: 4810 or consent of instructor.

For Graduates Only

- 5700. SELECTION AND UTILIZATION OF INFORMATION AND TECHNOLOGY RESOURCES.** (3-3-0) Selecting, organizing, and using major types of instructional technology and equipment in various school curricula and educational programs.
- 5710. INTEGRATING TECHNOLOGY INTO THE TEACHING/LEARNING PROCESS.** (3-3-0). Practical applications and methods of using technology to enhance the classroom learning environment.
- 5730. INSTRUCTIONAL TELEVISION IN EDUCATION.** (3-3-0). An analysis of instructional television and telecommunications applications in the classroom; implementation of telecourses and programs. Theory and practice in production of telecourses for live and interactive application of instructional settings.
- 5750. DESIGN AND PRODUCTION OF INSTRUCTIONAL MATERIALS.** (3-3-0). A review of instructional design and exercises in the development of video, computer-assisted instruction, and multimedia projects.
- 5760. ADVANCED MULTIMEDIA PRODUCTION.** (3-3-0). Continuation of 5750. Hardware/software operation, hypercontrol of computer generated graphics and sound, interactive video, scanned graphics, and CD-ROM. Prerequisite: 5750 or consent of instructor.
- 5770. TECHNOLOGY TRANSFER AND DISTANCE LEARNING.** (3-3-0). The impact of technology and technology transfer on the traditional and electronic classroom; current trends and uses that extend the classroom beyond traditional boundaries. Prerequisite: 5700.
- 5780. ORGANIZATION AND ADMINISTRATION OF EDUCATIONAL MEDIA AND TECHNOLOGY CENTERS.** (3-3-0). The management of an educational media/technology program including problems of selection, training, production, distribution, and financing of center operations. Prerequisite: 5700.
- 6000. RESTRUCTURING EDUCATION THROUGH TECHNOLOGY.** (3-3-0). Overview of trends in technology, schools and training programs of the future, and human-technology interface. Emphasis on leadership and effective implementation of educational change through technology.
- 6010. PRACTICUM IN RESTRUCTURING EDUCATION THROUGH TECHNOLOGY.** (3-3-0). Intensive directed working relationship with a field supervisor/administrator identified as a leader in incorporating educational technology. Weekly seminars via Internet, conference calls, and satellite teleconferences. Prerequisite: 6000.
- 6030. COGNITION AND TECHNOLOGY.** (3-3-0). Understanding human cognition change; implications for theory, practice, and research in educational technology.

- 6040. INSTRUCTIONAL DESIGN AND TECHNOLOGY.** (3-3-0). Analysis of educational goals objectives and their facilitation through instructional design and technology. New organizing principles for instruction. Contemporary research in instructional design, cognition, and innovation.
- 6450. SEMINAR IN CURRENT RESEARCH IN TECHNOLOGY.** (3-3-0). Issues, research, and movements affecting contemporary practice in instructional technology.
- 7460. SEMINAR IN ADVANCED TOPICS IN EDUCATIONAL TECHNOLOGY.** (3-3-0). Seminar addressing an important research topic in educational technology. Different topics, such as side effects of educational technology, or philosophical perspectives on educational technology, will be addressed in different terms. Prerequisite: permission of the instructor.

ENGINEERING TECHNOLOGY (ET)

For Undergraduates Only

- 1300. ELECTRICAL PRINCIPLES I.** (3-3-0). Principles governing current, voltage, resistance and power in ac/dc circuits. Methods used to determine impedance of series, parallel, and series-parallel resistive-reactive circuits. Principles governing magnetism and AC/DC voltage generation.
- 1301. ELECTRICAL PRINCIPLES LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 1300.
- 1320. ELECTRICAL PRINCIPLES II.** (3-3-0). Alternating current circuits, dc and ac circuit analysis theorems and techniques. Prerequisite: 1300-1301, registration in or credit for 1321; Mathematics 1810.
- 1321. ELECTRICAL PRINCIPLES II LABORATORY.** (2-0-4). Prerequisite: 1300-1301, registration in or credit for 1320; Mathematics 1810.
- 2320. BASIC ELECTRONICS.** (3-3-0). Principles of electronic devices, electronic devices, basic power supplies, amplifiers. Prerequisite: 1320-1321, registration in or credit for 2321.
- 2321. BASIC ELECTRONICS LABORATORY.** (2-0-4). Prerequisite: 1320-1321, registration in or credit for 2320.
- 2340. MICROCOMPUTERS.** (3-3-0). Computer overview with emphasis on hardware, the basic microcomputer system, microprocessor fundamentals, memory, secondary storage, input and output devices, operating systems, networks and work groups, security, ethics, and the law.
- 2350. STATICS AND STRENGTH OF MATERIALS.** (3-3-0). Principles of statics, vector algebra and vector quantities, resultants in coplanar force systems, equilibrium in coplanar force systems, analysis of structures, trusses, beams, chains and cables, friction, centroids and centers of gravity, moments of inertia, stresses, strains, torsion, shear, and bending, beams, Prerequisite: Mathematics 1810 or equivalent.
- 2360. ELECTRIC GENERATORS, MOTORS, AND TRANSFORMERS.** (3-3-0). Principles of ac and dc generators and motors – single phase, three phase, and synchronous motors. Transformers for special applications, local power distribution, and transmission of high voltage power. Generator and motor controls. Prerequisite: 1320-1321, registration in or credit for 2361.
- 2361. ELECTRIC GENERATORS, MOTORS, AND TRANSFORMERS LABORATORY.** (2-0-4). Laboratory to accompany 2360. Prerequisite: 1320-1321, registration in or credit for 2360.
- 2390. INDUSTRIAL ELECTRONIC CONTROLS AND POWER.** (3-3-0). Power supplies, solid state devices and control circuits, transducers, feedback systems, robotic controls, AC and DC motors, and motor control. Prerequisite: 2360-2361, registration in or credit for 2391.
- 2391. INDUSTRIAL ELECTRONIC CONTROLS AND POWER LABORATORY.** (2-0-4). Prerequisite: 2360-2361, registration in or credit for 2390.
- 2920. SPECIAL PROBLEMS.** (1 to 3-0-0). Selection of special problems in engineering technology; either individual or committee work to formulate a solution.
- 3300. DIGITAL ELECTRONICS.** (3-3-0). The design and analysis of digital circuits by use of Boolean algebra and Karnough maps; number systems and codes; logic families; arithmetic and encoder-decoder circuits; counters; registers; memories; interfacing circuits; and digital computer operation. Prerequisite: 2320-2321, registration in or credit for 4301.
- 3301. DIGITAL ELECTRONICS LABORATORY.** (2-0-4). Prerequisite: 2320-2321, registration in or credit for 4300.

- 3340. ADVANCED ELECTRONICS.** (3-3-0). Advanced topics in electronics. Small signal amplifiers, negative feedback amplifiers, operation amplifiers, oscillators, power supplies and voltage regulators, large signal amplifiers, thyristors. Prerequisite: 2320-2321, registration in or credit for 2341; Mathematics 2020.
- 3341. ADVANCED ELECTRONICS LABORATORY.** (2-0-4). Prerequisite: 2320-2321, registration in or credit for 2340; Mathematics 2020.
- 3350. ELECTRONIC INSTRUMENTS.** (3-3-0). Design, construction and applications of measuring instruments, calibration and servicing techniques for instruments, use of advanced measuring instruments. Prerequisite: 2340-2341, registration in or credit for 3341.
- 3351. ELECTRONIC INSTRUMENTS LABORATORY.** (2-0-4). Prerequisite: 2340, 2341, registration in or credit for 3340.
- 3390. GENERATION, TRANSMISSION, AND CONTROL OF ELECTRICAL POWER.** (3-3-0). Generating stations, transmission lines, switching equipment, high voltage circuit breakers, over current and voltage protective equipment, power factor measurement and correction, voltage regulation, and ground fault devices. Frequency control, load control, and substation controls. Test equipment and procedures in making such tests as insulation, transformer oil dielectric, load flow, surge, voltage dip, transients, harmonic analysis. Safety procedures to be followed in working with high voltage equipment. Prerequisites: 2360-2361, registration in or credit for 3391; Mathematics 2020.
- 3391. GENERATION, TRANSMISSION, AND CONTROL OF ELECTRICAL POWER LABORATORY.** (2-0-4). Prerequisite: 2360-2361, registration in or credit for 3390; Mathematics 2020.
- 4300. MICROPROCESSOR FUNDAMENTALS.** (3-3-0). Microprocessor structures, programming, data acquisition and conversion, interfacing, industrial control systems-process, material handling, and system development. Prerequisite: 4300-4301, registration in or credit for 4391.
- 4301. MICROPROCESSOR LABORATORY.** (2-0-4). Prerequisite: 4300-4301, registration in or credit for 4390.
- 4310. COMMUNICATION ELECTRONICS.** (3-3-0). Amplitude and frequency modulated transmitters and receivers used in communication equipment, individual circuits involved, and the systems as a whole. Prerequisite: 2340-2341, registration in or credit for 3371.
- 4311. COMMUNICATION ELECTRONICS LABORATORY.** (2-0-6). Prerequisite: 2340-2341; registration in or credit for 3370.
- 4330. PROTECTIVE RELAYS, SPECIALIZED TESTING, AND MAINTENANCE OF ELECTRICAL EQUIPMENT.** (3-3-0). Protective relays both electromagnetic and solid state, telemetry systems, specialized test equipment and distribution systems, maintenance programs, short circuit tests and coordination of protective devices. Computer software applications as applicable to test analysis. Prerequisites: 3390-3391, registration in or credit for 4331.
- 4331. PROTECTIVE RELAYS, SPECIALIZED TESTING, AND MAINTENANCE OF ELECTRICAL EQUIPMENT LABORATORY.** (2-0-4). Prerequisite: 3390-3391, registration in or credit for 4330.
- 4350. AUTOMATION CIRCUITS AND SYSTEMS.** (3-3-0). Microprocessors and interfacing circuits; feedback systems using servos, stability robotics and robot controls. Prerequisites: 3300-3301, registration in or credit for 4351.
- 4351. AUTOMATION CIRCUITS AND SYSTEMS LABORATORY.** (2-0-4). Laboratory to accompany 4350. Prerequisite: registration in or credit for 4350.
- 4370. MICROWAVE ELECTRONICS.** (3-3-0). Principles, application, and measurement of microwaves in communication and industry. Theory and operation of both active and passive devices and use of the Smith Chart in solving transmission line problems. Prerequisite: 3370-3371, registration in or credit for 4311.
- 4371. MICROWAVE ELECTRONICS LABORATORY.** (2-0-4). Prerequisite: 3370-3371, registration in or credit for 4310.
- 4380. VIDEO CIRCUITS AND SYSTEMS.** (3-3-0). Design and operation of the complete television system – cameras, receivers, and recorders, the operation of individual circuits and the systems as a whole; their characteristics and measurement techniques. Prerequisite: 3370-3371, registration in or credit for 3381.
- 4381. VIDEO CIRCUITS AND SYSTEMS LABORATORY.** (2-0-6). Prerequisite: 3370, 3371, registration in or credit for 3380.
- 4390. COMPUTER COMMUNICATIONS AND INTERFACING.** (4-2-4). Methods of digital communications data transmission and interfacing techniques related to computer systems. Networking, modem operation, and control of peripherals. Prerequisite: 3370-3371; 4300-4301.

- 4920. DESIGN PROBLEMS.** (1 to 3-0-0). Selection of design problems in engineering technology; either individual or committee work to formulate a solution.

ENGLISH (ENGL)

For Undergraduates Only

Placement in Freshman English is based on ACT scores.

- 0910. COMPOSITION AND GRAMMAR REVIEW.** (3-3-0). For students entering the University with marked deficiency in the grammar and writing of English. A grade of C or higher is required to advance to English 0920.
- 0912. WRITING DRILL.** (2-2-0). This course must be taken in the same semester the student is enrolled in 0910.
- 0920. BASIC COMPOSITION AND GRAMMAR.** (3-3-0). Refresher course; practice in short units of writing and drill in fundamentals of grammar, punctuation, and spelling. Grade of C or higher required to advance to English 1010.
- 0922. WRITING DRILL.** (2-2-0). This course must be taken in the same semester the student is enrolled in 0920.
- 1010. COMPOSITION AND RHETORIC I.** (3-3-0). The short paper; rhetoric, with emphasis on writing.
- 1020. COMPOSITION AND RHETORIC II.** (3-3-0). Writing the longer paper; diction, style, analysis and interpretation of collateral readings leading to the composition of the research paper. Prerequisite: 1010.
- 2050. MAJOR BRITISH WRITERS.** (3-3-0). Works of the most significant writers in English literature. Prerequisite: 1020.
- 2060. MAJOR AMERICAN WRITERS.** (3-3-0). Works of the most significant writers in American literature. Prerequisite: 1020.
- 2070. MAJOR WRITERS IN WORLD LITERATURE.** (3-3-0). Homer to Cervantes exclusive of English and American literature. Prerequisite: 1020.
- 2080. MAJOR WRITERS IN WORLD LITERATURE.** (3-3-0). Moliere through Solzhenitzen, including Goethe, Flaubert, Dostoyevsky, Camus and others. Prerequisite: 1020.
- 2510. ARGUMENTATIVE WRITING.** (3-3-0). Study of classical and contemporary argumentative techniques and strategies. Practice in writing and researching different types of arguments. Prerequisite: 1020.
- 2610. INTRODUCTION TO ANALYTICAL WRITING.** (3-3-0). Study and practice in rhetorical analysis, causal analysis, and researched writing. Focused exercises in critical reading and writing. Prerequisite 1020.
- 3100. SURVEY OF AMERICAN LITERATURE I: BEGINNINGS TO 1865.** (3-3-0). A survey of American literature from its beginnings to 1865.
- 3150. SURVEY OF AMERICAN LITERATURE II: 1865 TO PRESENT.** (3-3-0). A survey of American literature from 1865 to present.
- 3160. SURVEY OF BRITISH LITERATURE I: BEGINNINGS TO 1800.** (3-3-0). Survey of British literature from its beginnings to the end of the 18th century.
- 3170. SURVEY OF BRITISH LITERATURE II: 1800 TO PRESENT.** (3-3-0). A survey of British literature from 1800 to the present.
- 3200. ADVANCED GRAMMAR.** (3-3-0). Advanced grammar, structure, and syntax of the English language as spoken and written today.
- 3210. ADVANCED COMPOSITION.** (3-3-0). Forms of composition. Reading and analysis of non-fiction.
- 3230. TECHNICAL COMPOSITION.** (3-3-0). Form and techniques of writing for science, industry, and related fields.
- 3300. INTRODUCTION TO CREATIVE WRITING.** (3-3-0). To acquaint students with potential future in creative writing and to begin development of their talents.
- 3400. GREEK DRAMA AND MYTH.** (3-3-0). Readings in translation of Aeschylus, Sophocles, and Euripides, encompassing the content and style of selected plays as well as the mythological bases of drama.
- 3850. SPECIAL TOPICS.** (3-3-0). May be repeated for credit when the topic varies.
Subtitles:
01-Black American Literature
03-Supernatural
04-Women in Literature
06-Detective Fiction

- 07-Anglo-Irish
- 08-Film and Narrative
- 09-Science Fiction
- 12-Genres of American Folk Culture
- 13-Tragic Tradition in Western Drama

¹³⁹⁰⁰. **DIRECTED READING.** (3-3-0).

⁴⁰⁵⁰. **SENIOR SEMINAR.** (3-3-0). A survey of periods and genres and an intensive study of nine works.

For Undergraduates and Graduates

- ¹⁴⁰⁰⁰. **HISTORY OF THE ENGLISH LANGUAGE.** (3-3-0). Development; change since the Anglo-Saxon period; present-day usages and vocabulary.
- ¹⁴⁰⁴⁰. **ADVANCED TECHNICAL REPORT WRITING.** (3-3-0). Focused study and practice in preparing corporate reports, feasibility studies, proposals, and professional articles.
- ¹⁴¹⁰⁰. **LANGUAGE IN SOCIETY.** (3-3-0). Regional and social variation in language use, diglossia, language and culture, ethnography and language planning.
- ¹⁴¹¹⁰. **FUNDAMENTALS OF LINGUISTICS.** (3-3-0). Historical, geographical, and structural linguistics. (Same as Anthropology 4160).
- ¹⁴¹³⁰. **CHAUCEER.** (3-3-0). Major works; *The Canterbury Tales*; cultural, intellectual, and historical backgrounds.
- ¹⁴¹⁴⁰. **MEDIEVAL LITERATURE.** (3-3-0). Study of the major works of Middle English literature, excluding Chaucer.
- ¹⁴¹⁹⁰. **SHAKESPEARE.** (3-3-0). Comedies, histories, and tragedies; Shakespeare's development and the period in which he wrote.
- ¹⁴²⁰⁰. **SEVENTEENTH-CENTURY ENGLISH LITERATURE.** (3-3-0). A survey of seventeenth-century English prose, poetry, and drama through the English revolution, focusing on the relation between history and literature.
- ¹⁴²⁵⁰. **EIGHTEENTH-CENTURY BRITISH LITERATURE.** (3-3-0). A study of the prose and poetry of Dryden, Pope, Swift, Johnson, and some minor writers.
- ¹⁴²⁶⁰. **MILTON.** (3-3-0). Major works; *Paradise Lost* and selected prose.
- ¹⁴³¹⁰. **THE ROMANTICS.** (3-3-0). Major Romantic poets including Wordsworth, Coleridge, Byron, Shelley, and Keats.
- ¹⁴³³⁰. **THE VICTORIANS.** (3-3-0). Victorian poetry; Tennyson, Browning, and the Pre-Raphaelites.
- ¹⁴³⁵⁰. **THE ENGLISH NOVEL TO 1800.** (3-3-0). Classic forms of the novel – epistolary and picaresque – beginning in the 18th century and ending with Austen's novel of manners.
- ¹⁴³⁶⁰. **THE ENGLISH NOVEL SINCE 1800.** (3-3-0). The English novel since the Industrial Revolution; George Eliot, Butler, and Hardy to Joyce and Woolf. The novel as a document of social change and commentary.
- ¹⁴⁴⁰⁰. **MODERN DRAMA AS LITERATURE.** (3-3-0). A study of modern drama, beginning with Henrik Ibsen and ending with August Wilson (emphasizing American dramatists).
- ¹⁴⁴²⁰. **LITERARY CRITICISM.** (3-3-0). Evolution of critical theory; literary periods from Greek through 20th century British and American.
- ¹⁴⁴⁴⁰. **AMERICAN POETS.** (3-3-0). American poetry from the colonial period through Whitman to modern; development of the distinctive American voice in poetry.
- ¹⁴⁴⁹⁰. **AMERICAN RENAISSANCE.** (3-3-0). Essays and short fiction of mid-19th century American prose writers, especially Emerson, Thoreau, and Hawthorne.
- ¹⁴⁵⁷⁰. **THE AMERICAN NOVEL TO 1900.** (3-3-0). Major themes in development from the early republic through the flowering of New England (Melville, Hawthorne).
- ¹⁴⁵⁹⁰. **THE MODERN AMERICAN NOVEL.** (3-3-0). Works of the most significant novelists; style, theme, and development; Steinbeck, Hemingway, Faulkner, and others.
- ¹⁴⁶²⁰. **RHETORICAL THEORY THROUGH 1800.** (3-3-0). The development of composition and rhetorical theory from classical Greece through the 18th century.
- ¹⁴⁶³⁰. **MODERN RHETORICAL THEORY.** (3-3-0). Composition and rhetorical theory from the 18th century to the present.
- ¹⁴⁶⁴⁰. **CONTEMPORARY COMPOSITION THEORY.** (3-3-0). New directions in theory and practical application to composition and literature.
- ¹⁴⁶⁵⁰. **THE SOUTHERN RENAISSANCE.** (3-3-0). Flowering of literary culture in the South from 1920 to present; the fiction of William Faulkner, the Agrarian movement, poetry, present trends in Southern writing.
- ¹⁴⁶⁶⁰. **SYNTACTICAL THEORIES.** (3-3-0). Traditional structural, transformational, and current theories applied to composition.

- ¹**4670. FOLKLORE.** (3-3-0). Development of folklore in America; effects of regionalism upon it.
- ¹**4740. COMPUTERS AND COMPOSITION.** (3-3-0). Examines the use of various applications of computer technology, including computer conferring, word processing, hypermedia, and the Internet, to the teaching of composition.
- ¹**4750. SEMINAR: MAJOR AUTHORS.** (3-3-0). Intensive study of a major figure, emphasizing representative works and critical responses to those works. May be repeated for credit as topic varies. Prerequisite: junior standing.
Subtitles:
01-O'Neill
02-Tennessee Williams
- ¹**4800. PRINCIPLES OF LITERARY RESEARCH.** (3-3-0). Methods and techniques.
- ¹**4900. ENGLISH INTERNSHIP.** (3-0-6). For English majors. Prerequisite: junior standing, nine hours of English beyond the sophomore level, and consent of instructor. Six hours of practicum per week.

¹ All sophomore courses in English, required in any curriculum, must be completed before entry into an advanced English course.

For Graduates Only

The specific field of study in the following courses is determined by the instructor. Texts and subjects are changed at the discretion of the instructor.

- 5010. OLD ENGLISH.** (3-3-0).
- 5050. QUALITATIVE RESEARCH METHODS FOR LANGUAGE AND COMMUNICATION STUDIES.** (3-3-0). Introduces and examines commonly accepted procedures and epistemological foundations for qualitative research in language and communication studies such as participant observation, interviewing, and ethnography. Both doing and reporting qualitative research studies will be stressed.
- 5090. MEDIEVAL THROUGH 18TH CENTURY RHETORIC.** (3-3-0). Survey of rhetorical theory from medieval times through 1700s. Application of theories to scholarship in the history of rhetoric and the teaching of writing.
- 5100. STUDIES IN MEDIEVAL LITERATURE.** (3-3-0).
01-Chaucer
02-Medieval Romances
- 5150. STUDIES IN RENAISSANCE LITERATURE.** (3-3-0).
Subtitles:
01-Shakespeare's Tragedies
02-Shakespeare's Comedies
03-Shakespeare
04-Non-dramatic Literature
- 5200. STUDIES IN THE 17th CENTURY.** (3-3-0).
Subtitles:
01-Milton
02-Poetry
03-Prose
04-Drama
- 5210. MODERN AND CONTEMPORARY LITERARY THEORY.** (3-3-0). Designed to follow "Literary Criticism," English 5500, "Modern and Contemporary Literary Theory" will explore important post-1960's texts and their background sources.
- 5230. ADVANCED TECHNICAL WRITING AND EDITING.** (3-3-0). Practice and theory of technical writing and editing, organization, presentation and style of reports, articles, etc. that emerge in technical fields.
- 5240. PRINCIPLES OF SECOND LANGUAGE LEARNING AND SECOND LANGUAGE INSTRUCTION.** (3-3-0). Examine a number of second language learning/teaching paradigms and focus on the changing forms and functions of methodology and technique as the emphasis of language pedagogy has shifted from teacher directed, drill and pattern practice to learner focused, task based instruction.
- 5250. STUDIES IN THE 18th CENTURY.** (3-3-0).
Subtitles:
01-Essays, Poetry and Drama
02-Novels
03-Special Topics

5260. **CLASSICAL RHETORIC.** (3-3-0).
5270. **CONTEMPORARY RHETORIC.** (3-3-0).
5280. **GENERAL COMPOSITION THEORY.** (3-3-0).
5290. **STRUCTURAL VARIANCE IN COMPOSITION.** (3-3-0).
5300. **STUDIES IN THE 19th CENTURY.** (3-3-0).
 Subtitles:
 01-The Romantics
 02-The Victorians
 03-Novel since 1800
 04-Special Topics
5350. **STUDIES IN THE 20th CENTURY.** (3-3-0).
 Subtitles:
 01-Novels
 02-Poetry
 03-Drama
 04-Reading Film and/as Literature
5400. **STUDIES IN AMERICAN LITERATURE I.** (3-3-0).
 Subtitles:
 01-Colonial
 02-Nationalism and Romanticism
 03-Poetry
 04-Novels
 05-Drama.
5450. **STUDIES IN AMERICAN LITERATURE II.** (3-3-0).
 Subtitles:
 01-Rise of Realism
 02-Modern
 03-Poetry
 04-Novels
 05-Drama.
 06-African-American.
5500. **STUDIES IN LITERARY CRITICISM.** (3-3-0).
5550. **PROBLEMS IN CREATIVE WRITING.** (3-3-0).
5560. **SOUTHERN WOMEN WRITERS.** (3-3-0). A focus on the tradition of Southern fiction as demonstrated in selected writings by Southern women authors.
5570. **SOUTHERN LITERATURE BEFORE 1920.** Provides introduction to Southern Literature written prior to 1920. The Literature of the American South prior to 1920 includes a wide variety of diaries, political documents, poetry, drama, and fiction. The course will also focus on a genre of literature, the Humor of the Old Southwest.
5600. **USES OF FOLK MATERIALS IN TEACHING.** (3-3-0). Basic concepts and materials of folklore; analysis of folk materials as resources for instruction. Folk materials as a resource for writing.
5610. **FOLKLORE OF THE SOUTHERN UNITED STATES.** (3-3-0). Introduces folklore of major folk groups in the southern United States including Anglo-American, Afro-American, Native American, French and Spanish. Emphasis placed on verbal lore such as folk language, proverbs, tales, songs, legends, and myths.
5700. **PROBLEMS IN BLACK ENGLISH AND NON-STANDARD DIALECTS.** (3-3-0). Technical description of non-standard dialects of American English, especially Black English; pedagogical application to teaching of the standard dialect and of literary skills.
5710. **LOUISIANA FICTION.** (3-3-0). Representative 20th Century Louisiana writers of fiction such as George Washington Cable, James Aswell, Robert Penn Warren, Lafcadio Hearn, Shirley Ann Grau, Kate Chopin, Lyle Saxon, Ernest Gaines, and Arna Bontemps.
5720. **HISTORY, THEORY, AND PRACTICE OF PUBLIC FOLKLORE.** (3-3-0). Provides introduction to history, theory, and practice of public folklore programming. Examines applied folklore projects in national, state, and regional contexts while encouraging students to develop expertise in specific areas of public folklore such as publication, audio/video documentation, crafts, exhibits, education and festivals. Prerequisite: undergraduate or graduate level introduction to folklore. (Same as Anthropology 5720).

- 5721. INTERNSHIP IN PUBLIC FOLKLORE.** (3-0-0). Internship in Public Folklore. Seventeen hours per week and completion of a project defined by Director of the Louisiana Folklife Center. Possibilities include but are not limited to editing Louisiana Folklife, coordinating major components of Natchitoches/Northwestern State University Folk Festival, completing surveys of folk cultural resources, writing and coordinating grants, and helping develop small community folk cultural events such as silent exhibits and folklore performances. Prerequisites: 5600 (or approved senior/graduate folklore course) and 5720.
- 5800. BIBLIOGRAPHY AND LITERARY RESEARCH.** (3-3-0).
- 5900. SPECIAL PROBLEMS IN RESEARCH.** (1 to 4-3-0). A maximum of three hours of credit may be applied toward a degree.
- 5980. THESIS.** Maximum, six hours.

ENVIRONMENT (ENVR)

For Undergraduates Only

- 2000. CONSERVATION AND MANAGEMENT OF NATURAL RESOURCES.** (3-3-0). Course design is to familiarize students with the breadth of the earth's resources, natural and man mediated changes in these resources, and steps necessary for remediation due to the impact of man. Prerequisite: Science 2020 or Biology 1020 or Botany 2100. Students are required to attend a Saturday field trip during the semester.
- 2030. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS.** (3-3-0). Fundamental principles of Geographic Information Systems (GIS), including components of a GIS, data availability and format, data models, map projections, georeferencing, and image classification. Prerequisite: satisfactory completion of the mathematics core (six hours). Corequisite: enrollment in 2031.
- 2031. INTRODUCTION TO GEOGRAPHIC INFORMATION SYSTEMS LABORATORY.** (1-0-3). Computer exercises on various topics in GIS. Corequisite: enrollment in 2030.
- 2040. APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS.** (3-3-0). Advanced principles of Geographic Information Systems (GIS), examples of specific applications of GIS, remote sensing imagery. Prerequisite: satisfactory completion of the mathematics core (six hours), satisfactory completion of 2030, 2031. Corequisite: enrollment in 2041.
- 2041. APPLICATIONS OF GEOGRAPHIC INFORMATION SYSTEMS LABORATORY.** (1-0-3). Computer exercises on various topics in GIS. Corequisite: enrollment in 2040.

FAMILY AND CONSUMER SCIENCES (FACS)

For Undergraduates Only

- 1010. BEGINNING CLOTHING CONSTRUCTION.** (3-1-4). Construction of apparel. Fabric and style selection, fitting and alterations.
- 1041. FOOD PREPARATION EXPERIENCES.** (1-0-2). Principles of food preparation with emphasis on applied laboratory experiences. Focuses on food experiences for young children. Prerequisite: Nutrition 1050.
- 1070. PROFESSIONAL FAMILY AND CONSUMER SCIENCES.** (1-1-0). Introduction to roles and responsibilities of the professional in early childhood care and education, Fashion Merchandising, Housing and Interiors, Consumer Services, and Hospitality Management and Tourism. For majors only.
- 1120. SOCIAL AND BUSINESS ETIQUETTE.** (1-1-0). Fundamental social concepts relative to the home, society, business and the world.
- 2010. FOOD SCIENCE.** (3-1-4). Principles of food cookery.
- 2030. TEXTILES.** (3-3-0). Production, selection, use, and care of textile fibers and fabrics; laboratory.
- 2050. FOOD SERVICE LAYOUT AND EQUIPMENT.** (3-3-0). Characteristics of food service facilities; layout, design, selection, operation and care of equipment.
- 2060. PSYCHOLOGICAL AND SOCIOLOGICAL INFLUENCES OF DRESS.** (3-3-0). Focuses on the psychology, social implications and physiological aspects of appearance as related to the life stages in a multi-cultural society. Includes elements of design and consumer clothing considerations.
- 3020. PARENTING.** (2-2-0). The study of parenting roles and their effect on healthy human development and behavior. Current issues in parenting with emphasis on parenting in a multicultural society.
- 3030. INDIVIDUAL AND FAMILY MANAGEMENT.** (3-3-0). Principles and techniques for utilizing resources to meet personal and family goals. Prerequisite: junior standing.

- 3050. MEAL MANAGEMENT.** (3-1-4). Planning, preparing and serving food for family groups and modes of living; special occasion meals on different income levels; management and work simplification. Prerequisites: Nutrition 1020 or 1030, Family and Consumer Sciences 2010 or consent of instructor.
- 3070. QUANTITY COOKERY.** (4-1-6). Food production in quantity; menu planning for institutions; food service; use of equipment. Prerequisite: 3050.
- 3090. HOUSING.** (3-3-0). Environmental, interpersonal, psychological, and socioeconomic factors involved in housing decisions. Housing needs of low income, elderly, and handicapped.
- 3100. HOME FURNISHING.** (3-3-0). Houses, house plans and furnishings; making and adapting house plans; furnishings from artistic and economic points of view.
- 3170. INTERMEDIATE COUTURE CLOTHING CONSTRUCTION.** (3-3-0). Couture techniques and work with specialty fabrics. Familiarization with equipment used for advanced construction techniques. Prerequisite: 1010 or satisfactory score on placement exam.
- 4010. PERSPECTIVES IN FAMILY AND CONSUMER SCIENCES.** (1-1-0). Preparation for making the transition from student to professional. (For seniors only).
- 4050. HISTORY OF COSTUME.** (3-3-0). The study of dress and adornment of the historical periods of western civilization. Important periods of costume of western civilization; their relationship to life of the times and their importance in evolution and inspiration of modern dress. Prerequisite: 2030 or consent of instructor.
- 4080. CONSUMER PROBLEMS.** (3-3-0). Buying problems; principles of purchasing household commodities. Prerequisite: junior standing.
- 4110. SPECIAL PROBLEMS IN FAMILY AND CONSUMER SCIENCES.** (1 to 3-3-3). Individual and class study of specialized problems; for advanced students who are interested in and have a need for work in a particular area of home economics.
- 4130. SPECIAL PROBLEMS IN FAMILY AND CONSUMER SCIENCES.** (3-1-4). Physical principles, construction, materials, and economic considerations underlying selection, use and care of household equipment with special application to small equipment.
- 4160. FAMILY DEVELOPMENT.** (3-3-0). Relationships developed in family living with emphasis on the life cycle of the family; problems in family living.
- 4260. GOURMET FOODS.** (3-1-4). Historical background of sectional foods in the U.S. and foreign foods; creativity in food preparation; enhancing appearance and taste of dishes for family or quantity food service; preparation and service. Prerequisite: 2010, 3050, and three hours of nutrition.
- 4500. FIELD EXPERIENCE.** (4 to 12-0-0). Controlled work experience in the student's area of concentration, designed by host organization and instructor to blend theory and practice. A minimum of 30 hours of employment required for each hour of credit earned. Periodic evaluations, special projects and a summary report. Prerequisite: consent of instructor.

For Graduates Only

- 5000. FOUNDATIONS OF FAMILY AND CONSUMER SCIENCES.** (3-3-0). Orientation to graduate study in home economics and introduction to research, including appropriate conceptual and theoretical frameworks. Should be taken during the first semester of graduate study in home economics.
- 5030. SPECIAL STUDIES IN FOODS AND NUTRITION.** (3-3-0). Recent scientific advances in this field; demonstrations and new techniques applicable in teaching.
- 5040. PROBLEMS IN FAMILY AND CONSUMER SCIENCES.** (1 to 3-0-0). Special problems in home economics, selected in accordance with needs of student.
- 5080. CLOTHING – ITS SOCIAL AND PSYCHOLOGICAL ASPECTS.** (3-3-0). Theory and research concerning clothing as a factor in the physical, social and psychological environment of man; man's response to and use of clothing as an aspect of individual behavior and culture.
- 5120. SUPERVISION OF FAMILY AND CONSUMER SCIENCES.** (3-3-0). Objectives, techniques, and evaluation of supervision of instruction in home economics. For experienced teachers interested in supervising student teachers, or in working with home economics teachers in-service. (Same as Education 5120.)
- 5140. PHILOSOPHY OF FAMILY AND CONSUMER SCIENCES.** (3-3-0). Historical developments relative to home economics as a field; conceptual framework on which the field is based; problems and trends in home economics.
- 5980. THESIS.** (1 to 6-0-0). Same as Early Childhood Education 5980.

FINANCE (FIN)

For Undergraduates Only

- 2150. PERSONAL FINANCE.** (3-3-0). Financial planning, budgeting, managing income, taxes, sources of credit, risk management and insurance, personal investing and buying a home or car.
- 3090. BUSINESS FINANCE.** (3-3-0). Financial statement analysis, working capital management, time value of money, capital structure, leverage, cost of capital theory and concepts, capital budgeting, pro forma statements and analysis, and securities valuation. Prerequisite: six hours of accounting.
- 3100. MONEY AND BANKING.** (3-3-0). Origin, development, and functions of money; basic monetary theory, financial institutions of the U.S. and how they affect the volume of spending. (Same as Economics 3100.) Prerequisites: Economics 2000 and 2010.
- 3130. PRINCIPLES OF INSURANCE.** (3-3-0). Nature, business and personal uses, regulations, provisions and coverage of life, health, home, auto liability and transportation insurance. Prerequisite: junior standing or consent of instructor.
- 3150. REAL ESTATE.** (3-3-0). Nature and principles of real estate: interests, ownership, legal descriptions, encumbrances, transfer of titles, financing, brokerage, appraisal, contracts and legal aspects, and licensing laws and regulations. Prerequisite: junior standing or consent of instructor.
- 3160. REAL ESTATE APPRAISAL I.** (3-3-0). Principles and concepts of real estate valuation, value theory, and professional standards and methodology. Prerequisite: junior standing or consent of instructor.
- 3170. REAL ESTATE APPRAISAL II.** (1-1-0). Principles, theories, and approaches to appraising rural property. Includes determination of property values, data collection, appraisal of selected rural properties and case studies. Corequisite: 3160.
- 3320. LIFE, ACCIDENT, AND HEALTH INSURANCE.** (3-3-0). Principles of personal and business life, accident and health insurance: types of policies, contract provisions, premiums, policy selection, underwriting, employee benefit plans, and the organization, management and regulation of insurance companies. Prerequisite: junior standing or consent of instructor.
- 4120. PRINCIPLES OF INVESTMENTS.** (3-3-0). Types of securities; money markets and capital markets; security analysis; portfolio management. Prerequisites: 3090, Economics 2000, 2010.
- 4200. FINANCIAL POLICIES AND PRACTICES.** (3-3-0). Application of financial management principles to situations involving decisions with emphasis on financial analysis using problems and cases. Prerequisite: 3090 and junior standing.

FINE ARTS (FA)

For Undergraduates Only

- 1040. EXPLORING THE ARTS.** (3-3-0). The fine arts (music, visual art, drama, and dance) as they relate to the human experience. Related subjects such as film and architecture will also be discussed.

FORESTRY (FOR)

For Undergraduates Only

- 1110. INTRODUCTION TO FORESTRY.** (3-3-0). Applied forestry; dendrology, mensuration, management and simple surveying problems.
- 2150. DENDROLOGY.** (2-2-0). Principal trees of Southeast U.S.; identification and distribution; introduction to keys. Prerequisite: registration in or credit for 2151.
- 2151. DENDROLOGY LABORATORY.** (1-0-2). Field identification of trees of Southeast U.S. Prerequisite: registration in or credit for 2150.

FRENCH (FREN)

For Undergraduates Only

- 1010. INTRODUCTION TO FRENCH.** (3-3-0). Grammar; vocabulary; idioms; formation and recognition of tenses; reading in French; oral and aural comprehension; translation into French and English. Designed for beginners.
- 1020. INTRODUCTION TO FRENCH.** (3-3-0). Continuation of 1010. Formation and recognition of verb tenses; speed and accuracy of translation; idioms; aural and oral comprehension; translation into French and English. Prerequisite: 1010.

- 2010. INTERMEDIATE READING IN FRENCH.** (3-3-0). Prose readings; rapid and accurate translation; vocabulary building. Prerequisite: 1010, 1020.
- 2020. INTERMEDIATE CONVERSATIONAL FRENCH.** (3-3-0). Concentrated practice of oral skills. Prerequisite: 2010.
- 2030. ADVANCED GRAMMAR.** (3-3-0). Principles of grammar. Tenses, irregular verbs, idioms, special problems of vocabulary. For majors and minors. Prerequisite: 2010.
- 2050. INTRODUCTION TO FRENCH LITERATURE.** (3-3-0). Passages that are mature in style and meaningful in content, involving French civilization and culture. Designed to develop rapid reading and interpretation of the written language and appreciation of style and content.
- 2100. FIELD STUDY.** (3 to 9-0-0). Intermediate level.
- 2990. DIRECTED READING.** (3-3-0). For students pursuing a French minor. May not be repeated. Does not satisfy 12 semester hours foreign language requirement.
- 3010. FRENCH CULTURE AND SOCIETY.** (3-3-0). Readings in contemporary aspects of French culture.
- 3020. CONVERSATION AND COMPOSITION.** (3-3-0). Vocabulary, oral practice, aural comprehension; class reading and discussion; memorization of selected poems.
- 3040. PHONETICS.** (3-3-0). Analysis of separate sounds with oral practice in class, oral readings for intonation and rhythm; drill in phonetic transcription and reading.
- 3060. HISTORY OF FRENCH LITERATURE.** (3-3-0). From earliest times through the 18th century; collateral readings and reports in French.
- 3070. HISTORY OF FRENCH LITERATURE.** (3-3-0). The 19th and 20th centuries; collateral readings and reports in French.
- 3100. FIELD STUDY.** (3 to 9-0-0). Advanced study.
- 4030. SEVENTEENTH CENTURY CLASSICAL DRAMA.** (3-3-0). Classical movement in French literature; the theater; plays of Corneille, Racine, and Moliere.
- 4090. TWENTIETH CENTURY FRENCH DRAMA.** (3-3-0). Literary movements within the theater from the beginning of the 20th century to the present.
- 4100. FIELD STUDY.** (3 to 9-0-0). Advanced literature.

For Graduates Only

- 5000. FUNDAMENTALS OF READING FRENCH.** (3-3-0). Review of grammatical and rhetorical principles and of basic vocabulary necessary for reading fluency. Credit earned from this course cannot be counted toward the completion of any degree.

GEOGRAPHY (GEOG)

For Undergraduates Only

- 1010. WORLD REGIONAL GEOGRAPHY-THE DEVELOPED WORLD.** (3-3-0). A comprehensive examination of Europe, Russia, North America, East Asia, and Australia/New Zealand utilizing the geographic perspective to understand the special combination of cultural, organizational and environmental properties of each region and how these qualities are imprinted on the landscape.
- 1020. WORLD REGIONAL GEOGRAPHY-THE DEVELOPING WORLD.** (3-3-0). A comprehensive examination of Middle and South America, Africa, Southwest Asia, South Asia, and Southeast Asia utilizing the geographic perspective to understand the special combination of cultural, organizational and environmental properties of each region and how these qualities are imprinted on the landscape.
- 2010. PHYSICAL GEOGRAPHY.** (3-3-0). Introduction to an investigation of the locational aspects of natural earth phenomena (i.e., phenomena not produced or primarily controlled by humans) including earth-sun relations, weather and climate, surface features (landforms and water bodies), natural vegetation, soils, and ecosystems.
- 2020. CULTURAL GEOGRAPHY.** (3-3-0). An examination of the historical development, visual character, representation and continuing evolution of the diverse cultural landscapes and behavioral patterns of the world. Special attention is paid to the relationship between those landscapes and the people who have created them. These relationships are viewed within a variety of frameworks such as cultural regions, cultural elements and diffusion, population movement and migration, and the spatial patterns of language, religion, and social problems.

For Undergraduates and Graduates

- 3050. GEOGRAPHY OF NORTH AMERICA.** (3-3-0). A regional survey of North America. The course emphasizes not only the physical environment, but also the historical, cultural, economic, and political evolution of the region. Prerequisite: 1010, 1020 or consent of instructor.
- 3060. GEOGRAPHY OF EUROPE.** (3-3-0). A regional survey of Europe's natural and cultural landscapes, with special attention to recent political, economic, and social changes. The region is examined not only with respect to internal dynamics, but also to its position in international relations. Prerequisite: 1010, 1020 or consent of instructor.

GEOLOGY (GEOL)

For Undergraduates Only

- 1030. PHYSICAL GEOLOGY.** (3-3-0). Nature and structure of materials of the earth; processes which shaped or are shaping the earth. Prerequisite: registration in or credit for 1031. (Students may not receive credit for both Geology 1030 and Science 2030.)
- 1031. PHYSICAL GEOLOGY LABORATORY.** (1-0-3). Rocks and rock-forming minerals; topographic maps, aerial photographs, and geologic structures. Prerequisite: registration in or credit for 1030.
- 1040. HISTORICAL GEOLOGY.** (3-3-0). Origin and geological history of the earth and development of its animal and plant inhabitants revealed in rocks and fossils. Prerequisites: registration in or credit for 1041, 1030-1031.
- 1041. HISTORICAL GEOLOGY LABORATORY.** (1-0-3). Identification and morphology of common fossils; geologic maps, folios, and structure sections. Prerequisite: registration in or credit for 1040.
- 3010. INVERTEBRATE PALEONTOLOGY.** (3-3-0). Classification, structure, distribution, and evolution of invertebrates; typical fossils. Prerequisites: registration in or credit for 3011, 1040-1041, Biology 1020-1021 is advised.
- 3011. INVERTEBRATE PALEONTOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 3010.
- 3020. SEDIMENTOLOGY.** (3-3-0). Classification, composition, texture, structure, and genesis of sedimentary rocks; shape, mineralogical and chemical analysis of sediments. Prerequisites: registration in or credit for 3021.
- 3021. SEDIMENTOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 3020.
- 3040. STRUCTURAL GEOLOGY.** (3-3-0). Origin, description, and classification of the earth's major structures and their economic significance. Prerequisites: registration in or credit for 3041; 1040-1041; Mathematics 1090 is advised.
- 3041. STRUCTURAL GEOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 3040.

For Undergraduates and Graduates

- 4040. INTRODUCTION TO GEOPHYSICS.** (3-3-0). Magnetic, gravitational, seismic, electrical and radioactive properties of the earth and their application in science and industry. Prerequisites: registration in or credit for 4041, 1040-1041; Physics 2040-2041 or 2520[Shyph]2521.
- 4041. INTRODUCTION TO GEOPHYSICS LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 4040.

For Graduates Only

- 5000. PRINCIPLES OF GEOLOGY FOR SCIENCE TEACHERS.** (3 to 4-0-0). Earth in the solar system; nature of materials composing the earth; processes which have shaped and are shaping the earth; rocks, minerals, soils, fossils; topographic features and their origin; origin and economic significance of rock structures; origin and geological history of the earth; evolution of animals and plants; topographic and geological maps and aerial photographs. Prerequisite: registration in or credit for 5001.
- 5001. PRINCIPLES OF GEOLOGY FOR SCIENCE TEACHERS LABORATORY.** (1 to 2-0-0). Prerequisite: registration in or credit for 5000.

¹ Not more than four hours of credit may be applied to requirements for the M.A. in Ed., M.Ed., or M.S. in Ed. degrees. Only eight hours of science courses bearing the number 5000 may be applied to the above mentioned degree.

GERMAN (GERM)

For Undergraduates Only

- 1010. INTRODUCTION TO GERMAN.** (3-3-0). Vocabulary building; grammar; reading prose; written exercises, pronunciation, diction, memory work; oral and aural practice; German civilization.
- 1020. ELEMENTARY GERMAN.** (3-3-0). Continuation of 1010. Prerequisite: 1010.
- 2010. READINGS IN PROSE AND POETRY.** (3-3-0). Selections of moderate difficulty. Prerequisite: 1020.
- 2990. DIRECTED READING.** (3-3-0). For students pursuing a German minor. May not be repeated. Does not satisfy 12 semester hour foreign language requirement.
- 3010. LITERARY PROSE.** (3-3-0). Readings from short stories, prose, drama, and novels; lectures on German literature.
- 3030. CONVERSATIONAL GERMAN.** (3-3-0). Elementary conversation, composition and grammar. Prerequisite: 2010 or consent of instructor.
- 4010. ADVANCED LITERARY PROSE.** (3-3-0). Readings from short stories, novels, and prose drama. Prerequisite: 3010 or consent of instructor.
- 4050. GERMAN CULTURE AND CIVILIZATION.** (3-3-0). German historical, political, social, and artistic development from Germanic times to the present.

HEALTH EDUCATION (HED)

For Undergraduates Only

- 1010. FIRST AID AND CPR.** (2-0-2). First aid measures for injuries and sudden illnesses; general safety education, accident causes and remedial action. CPR certification is available for students completing requirements..
- 1090. PERSONAL AND COMMUNITY HEALTH.** (3-3-0). Basic health information for intelligent self-decisions regarding healthy behaviors; physiological and psychological effects of substances such as drugs, tobacco smoking, and alcohol; sexuality and other critical personal issues; psychosocial and environmental aspects of community health.
- 2000. INTRODUCTION TO HEALTH EDUCATION.** (3-3-0). Overview of health education with emphasis on health behavior and delivery of health education in school, community, and corporate settings; exploration of career opportunities and basics of program development.
- 2010. BASIC ATHLETIC TRAINING.** (3-3-0). Prevention and rehabilitation of athletic injuries; conditioning; bandaging and taping; diet; massage; use of hydrotherapy and cryotherapy and other modalities in the treatment of injuries. Prerequisite: 1010.
- 2030. PRACTICUM IN ATHLETIC TRAINING.** (2-0-10). Practical experience in NSU Athletic Training room; set-up of equipment, materials and supplies; first aid, taping and bandaging, and rehabilitation of athletic injuries. Prerequisite: 2010.
- 3000. COMMUNITY HEALTH PROMOTION.** (3-3-0). The study of the structure and function of community health. Discussion of critical health problems of public concern, fundamentals of epidemiology, community health planning, and identification and use of official and voluntary agencies and resources.
- 3010. ADVANCED ATHLETIC TRAINING.** (3-3-0). Continuation of 2010. Advanced discussion and techniques of assessment and rehabilitation; modalities and protocols for treating injuries; conditioning. Prerequisites: 2010 and 2030.
- 3110. DRIVER EDUCATION AND TRAFFIC SAFETY.** (3-2-2). Materials and methods for instruction, organization and administration of driver education; traffic problems, and safety programs. (For education majors only.)
- 3160. CURRICULUM DEVELOPMENT IN HEALTH EDUCATION.** (2-3-0). Materials and methods for teaching health education in elementary schools. Prerequisite: junior standing, registration in or credit for Education 3140.
- 4000. HEALTH AND EXERCISE PSYCHOLOGY.** (3-3-0). Designed to provide students employed in health and wellness settings on understanding of the psychological and sociological factors affecting healthy lifestyle choices. Particular emphasis is placed on exercise adoption and adherence. Prerequisites: Health Education 1090 and junior or senior standing.
- 4030. CLINICAL SPORTS MEDICINE.** (3-1-12). Clinical and practical experience working in NSU Athletic Training room, with orthopedic medical practice, and with registered physical therapist. Prerequisite: 3010 and consent of instructor.

- 4190. PHYSICAL FITNESS FOR ADULTS.** (3-3-0). Practical application of the theory of exercise science aimed at adult populations in order to provide the student with sufficient background to develop and conduct fitness programs in a variety of settings. Prerequisite: Physical Education 3550, 3560.
- 4500. SEXUALITY EDUCATION.** (3-3-0). A contemporary approach to issues related to sexuality education. Identification of values and philosophies accompanying human sexuality; current content, theories, and teaching methods in sexuality education.
- 4600. DRUG AND ALCOHOL EDUCATION.** (3-3-0). Dissemination of current information related to legal and illegal drugs. Emphasis is placed on psychosocial issues associated with drug use and abuse; development of appropriate and effective instructional strategies for use by prospective and current teachers.

For Undergraduates and Graduates

- 4880. METHODS AND MATERIALS OF K-12 HEALTH EDUCATION.** (3-3-0). A study of up-to-date materials, methods, and strategies for health educators. Emphasis will be placed on planning, organization and the development of curricula and evaluative methods. Prerequisite: admission to teacher candidacy or teacher certification.
- 4940. SAFETY EDUCATION.** (3-3-0). Causes and prevention of accidents in home, school, traffic, industry, and recreational activities in the gymnasium, on the playground, and in aquatic sports; laws concerning legal liability; accident and liability insurance. Prerequisite: junior standing.
- 4950. CURRICULUM INNOVATIONS AND INSTRUCTIONAL DEVICES IN DRIVER EDUCATION.** (4-2-4). Curriculum materials, instructional devices, and techniques including simulation, multi-media, driving range, on-street instruction, and motorcycle.

For Graduates Only

- 5100. CURRENT HEALTH ISSUES.** (3-3-0). Historical and contemporary factors contributing to the development of Health Education and Health Promotion as complementary disciplines. Review of current research literature regarding the role of Health Education/Promotion in contributing to the nation's health.
- 5200. HEALTH BEHAVIOR.** (3-3-0). Understanding the relationship between mental, emotional, and social health and behavioral change. The primary focus is on the psychological and sociological factors that affect life health choices and quality of life.
- 5300. PLANNING AND ORGANIZING HEALTH PROMOTION PROGRAMS.** (3-3-0). Health promotion techniques and programs. Emphasis is given to examination of existing program models and the review of scientific literature concerning the planning and organization of health promotion.
- 5370. PROBLEMS IN HEALTH EDUCATION.** (3-3-0). Health problems of communities and schools; examining and evaluating official and voluntary health agencies trying to solve or minimize problems; community-school cooperation through school-community health councils.
- 5400. IMPLEMENTING AND EVALUATING HEALTH PROMOTION PROGRAMS.** (3-3-0). Marketing of health promotion programs and development of evaluation protocols. Emphasis is placed on application of concepts, review and utilization of current research literature in the field. Prerequisite: 5300.
- 5500. HEALTH AND PHYSICAL MANAGEMENT.** (3-3-0). Designed for teachers working with young children with special needs. A variety of topics related to the medical care and health maintenance of this age group, physical skill and nutritional concerns, and emergency medical techniques including CPR and basic first aid are discussed.
- 5980. THESIS.** (3 to 6-0-0).

HISTORIC PRESERVATION (HPRE)

For Undergraduates and Graduates

- 3150. AMERICAN ARCHITECTURE BEFORE 1860.** (3-3-0). A survey of American architecture from the 17th century to the Civil War, with attention given to the relationships between social ideas, geographic locations and architectural styles. Emphasis is on stylistic trends as influenced by the European high style and architectural patternbooks; architects; and vernacular forms. Survey includes examples of local architecture.

- 3160. AMERICAN ARCHITECTURE AFTER 1860.** (3-3-0). A survey of American architecture from 1860 to 1976, with attention given to innovations achieved through technological advancements in materials; and the architects who employed them. Emphasis is on patternbooks and kit catalogs. Building styles include skyscrapers, kit houses, and "plat" developments. Survey includes examples of local architecture.
- 3500. THE HISTORY OF BUILDING TECHNOLOGY.** (3-3-0). Covers the basic principles of traditional American construction, from technologically changing ideas to terminology. Attention will be given to the evolution of framing, as influenced by stylistic or practical needs. The final weeks will focus on the physical conditions and structural plans of historic buildings, and on developing recommendations for their restoration.
- 4200. MATERIALS CONSERVATION METHODS.** (3-1-4). An introduction to the variety of materials used in conservation and restoration projects, presented through lectures and hands-on laboratory experiments. Attention will be given to the history, tools, and preservation techniques of each material; and the composition, properties, and uses of each material will be addressed.
- 4300. RECORDING AND ANALYZING THE BUILT ENVIRONMENT.** (3-3-0). A studio course designed to provide practical experience in documenting the built environment. Instruction is given in architectural research, physical recording, measured drawings, site analysis, and national documentation. Case studies are employed within the town of Natchitoches or at Long Leaf, Louisiana.
- 4500. METHODS AND CONCEPTS OF HISTORIC PRESERVATION.** (3-3-0). A survey of historic preservation and the components used to examine the built environment. Students will achieve a basic understanding of architectural styles, traditional materials and construction, and the fundamentals of documenting the structures.
- 4900. SPECIAL PROBLEMS IN HISTORIC PRESERVATION.** (3-0-0). An independent study course designed to permit the student to conduct extensive research in a specialized area of preservation. Topic to be determined by student and instructor. Prerequisite: 4300.

HISTORY (HIST)

For Undergraduates Only

- 1010. EARLY WORLD CIVILIZATION.** (3-3-0). Earliest cultures to 1648, contributions of the Romans and the Christian Church, feudalism and rise of national states, the Renaissance and Reformation.
- 1020. MODERN WORLD CIVILIZATION.** (3-3-0). Since 1648; mid-19th century revolution; nationalism and political reorganization; social, economic and cultural developments, commercial rivalry and colonial expansion; the system of alliances, wars and readjustments.
- 2010. HISTORY OF THE UNITED STATES.** (3-3-0). Colonial foundations; movement for independence; early years of the Republic; national growth and expansion; sectionalism and the Civil War.
- 2020. HISTORY OF THE UNITED STATES.** (3-3-0). Reconstruction; industrial expansion and related problems; imperialism; World War I and aftermath; depression and New Deal; World War II; U.S. since the war.
- 2100. MILITARY HISTORY OF THE U.S.** (3-3-0). U.S. at war since the colonial beginnings. Inter-relationship of political, economic, social, and military factors. Evolution of U.S. armed forces as instruments of civilian authority. Theory and practice of warfare, strategy, and tactics. Prerequisites: 2010, 2020 or consent of instructor. This is not a core course and does not count toward the history major or minor.
- 3990. HISTORICAL METHODS.** (3-3-0). A general introduction to the nature and methods of history; the theory and practice of history with an emphasis on the latter. Prerequisites: six hours of survey level history or consent of instructor.

For Undergraduates and Graduates

- 3010. BIBLICAL HISTORY.** (3-3-0). Judaism and Christianity from Semitic background to fall of the Jewish state in A.D. 70. The Old Testament era; interbiblical period and early Christianity. Modern archeological discoveries; the Old Testament as a historical document. Prerequisites: 1010 and consent of instructor.
- 3020. AMERICAN DIPLOMATIC HISTORY (1776-1898).** (3-3-0). Events, men and principles in relation to the periods of the American Revolution, Napoleonic Wars and expanding nationalism, Civil War, Reconstruction and rising imperialism. Prerequisites: 2010, 2020.

- 3030. AMERICAN DIPLOMATIC HISTORY (1898-PRESENT).** (3-3-0). Development of the U.S. as a world power; the search for permanent peace; Pan-Americanism, World Wars I and II, the abandonment of isolationism and the challenges since 1945. Prerequisites: 2010, 2020.
- 3040. HISTORY OF LOUISIANA.** (3-3-0). Discovery and exploration; French and Spanish colonial administration; early American period and emergence as a Southern state with emphasis on Louisiana's role in the antebellum South, Civil War, and Reconstruction; emergence of modern Louisiana.
- 3060. OLD SOUTH.** (3-3-0). Southern U.S. from colonial times to outbreak of Civil War; social, economic, and political development. Prerequisites: 2010, 2020.
- 3070. THE CONTEMPORARY SOUTH.** (3-3-0). South in the Nation; individualism of the region and component parts; economic, social and political problems since the Civil War. Prerequisites: 2010, 2020.
- 3080. ORAL HISTORY METHODS.** (3-3-0). Introduction to all aspects of oral history process including interview technique, transcription, and editing; develops critical judgment in evaluating oral testimony. Prerequisite: junior standing. Graduate students will do an additional paper.
- 3090. ANCIENT HISTORY.** (3-3-0). Civilization from beginnings in Egypt and Babylonia to collapse of the Roman Empire. Prerequisite: 1010.
- 3100. MEDIEVAL HISTORY.** (3-3-0). Europe from fall of the Roman Empire in the west to the Renaissance. Prerequisite: 1010.
- 3110. THE RENAISSANCE AND REFORMATION.** (3-3-0). Europe from mid-13th century through the Thirty Years' War; changing economic and political structure; intellectual and social impact of the Renaissance and the Protestant Revolt and counter Reformation. Prerequisites: 1010, 1020.
- 3120. HISTORY OF EUROPE (1648-1789).** (3-3-0). Wars of religion and the English revolutions; the age of Louis XIV; the Enlightenment. Prerequisites: 1010, 1020.
- 3140. THE AMERICAN WEST.** (3-3-0). Advancement of the Western Frontier from 1783 to 1890; Indian administration, fur trade, mining activities, and cattle industry; the West in the development of American institutions. Prerequisites: 2010, 2020.
- 3150. DISCOVERING AND INTERPRETING LOCAL HISTORY.** (3-3-0). Investigation and interpretation of the sources of local history; practical utilization. Prerequisite: consent of instructor.
- 3170. PROBLEMS IN HISTORIC AND CULTURAL PRESERVATION.** (3-3-0). Applied research in historic and cultural preservation and interpretation. Prerequisite: consent of instructor.
- 3220. HISTORY OF FRENCH CIVILIZATION AND CULTURE.** (3-3-0). French thought and institutions; social and political conditions obtaining throughout French history. Prerequisites: 1010, 1020 or consent of instructor.
- 3230. RECONSTRUCTION OF THE SOUTH (1865-1877).** (3-3-0). Inter-relationships of economic, political and social factors involved in reconstruction. Prerequisites: 2010, 2020 or consent of instructor.
- 3250. THE FRENCH REVOLUTION AND NAPOLEON.** (3-3-0). Revolutionary Europe from 1789 to 1815; political, economic, social and religious developments to 1799; consolidation of the Revolution under Napoleon and the European upheaval of war. Prerequisites: 1010, 1020 or consent of instructor.
- 3300. WOMAN IN THE MODERN WORLD.** (3-3-0). The political, economic and social aspect of woman's position and influence in modern western society; woman's struggles for personal and political rights. Prerequisites: 1020, 2020 or consent of instructor.
- 3400. THE CIVIL WAR, 1861-1865.** (3-3-0). Major campaigns, battles, and leaders of the War; domestic and foreign events related to the War. Prerequisites: 2010, 2020.
- 4040. ARCHIVES AND MANUSCRIPTS ADMINISTRATION.** (3-2-3). Principles and techniques; history of archives; development of the American archival method; administrative role, access policy, methods of acquisition, processing and retrieval, evaluation, appraisal and preservation. Requires five contact hours per week in the University Archives working under close supervision. Prerequisites: consent of instructor or senior standing.
- 4080. SPECIAL PROBLEMS IN AMERICAN HISTORY.** (1 to 3-3-0). Prerequisites: major or minor in history; senior standing; consent of instructor.
- 4090. SPECIAL PROBLEMS IN EUROPEAN HISTORY.** (3-3-0). Prerequisites: major or minor in history; senior standing; consent of instructor.
- 4310. COLONIAL AMERICA (1492-1754).** (3-3-0). Discovery, exploration, and founding of the American colonies, colonial administration; development of American political and social institutions; intercolonial struggles for North America. Prerequisite: 2010.

- 4320. REVOLUTIONARY AMERICA (1754-1783).** (3-3-0). French and Indian War, the British imperial system; the Revolutionary War, its causes and results. Prerequisite: 2010.
- 4330. THE EARLY AMERICAN REPUBLIC (1783-1836).** (3-3-0). U.S. from the Revolution to 1836; the period of confederation; the constitution; political, economic, and social developments culminating in election of Jackson to the presidency. Prerequisites: 2010, 2020.
- 4340. AMERICAN EXPANSION AND SECTIONAL CONFLICT (1837-1865).** (3-3-0). U.S. in mid-19th century; territorial expansion; political, economic, and social conflicts leading to the War Between the States. Prerequisites: 2010, 2020.
- 4350. AMERICA IN TRANSITION (1877-1919).** (3-3-0). Emergence of modern industrialism; organization of farmers and laborers; the Progressive movement; neutrality; World War I and the Treaty of Versailles. Prerequisites: 2010, 2020.
- 4360. THE UNITED STATES (1919-1945).** (3-3-0). The Republican era of the 1920s, the Great Depression; the New Deal; World War II. Prerequisites: 2010, 2020.
- 4380. HISTORY OF EUROPE (1815-1870).** (3-3-0). End of the Napoleonic era; Congress of Vienna and the Congress system; revolutions of 1830 and 1848; unification of Italy and Germany. Prerequisites: 1010, 1020.
- 4390. HISTORY OF EUROPE (1870-1918).** (3-3-0). Alliances; economic and political imperialism; World War I and its origins. Prerequisites: 1010, 1020.
- 4400. TWENTIETH CENTURY EUROPE.** (3-3-0). Domestic policies; diplomacy, economic and cultural causes and effects of political events; trends and developments in Europe since 1918. Prerequisites: 1010, 1020.
- 4410. SOCIAL HISTORY OF MODERN EUROPE.** (3-3-0). Social practices and institutions of modern Europe; religion, education, arts, social traditions.
- 4420. HISTORY OF ENGLAND TO 1689.** (3-3-0). Formation of the English people and nation; early legal and constitutional development; struggle between King and Parliament; overseas expansion to the Glorious Revolution. Prerequisites: 1010, 1020 or consent of instructor.
- 4430. HISTORY OF ENGLAND SINCE 1689.** (3-3-0). Consolidation of constitutional evolution; economic, political, and social revolutions of the 18th and the 19th centuries; colonialism and emergence of the Commonwealth of Nations; British role in international affairs of the 20th century. Prerequisites: 1010, 1020 or consent of instructor.
- 4440. MODERN GERMANY.** (3-3-0). German institutions and their role in western civilization. Germany since the Congress of Vienna. The German Confederation; the Second Reich; the Weimar Republic; Hitler's Third Reich and post-World War II Germany. Prerequisites: 1010, 1020 and consent of instructor.
- 4450. THE UNITED STATES SINCE 1945.** (3-3-0). American History since World War II; Cold War; social, economic, and political development of the nation. Prerequisite: 2010, 2020.

For Graduates Only

- 5010. HISTORIOGRAPHY.** (3-3-0). Historical literature and philosophies of the Western World; the American scene; techniques of historical writing. Prerequisites: 2010, 2020 and consent of instructor.
- 5030. SEMINAR IN DIPLOMATIC HISTORY OF THE UNITED STATES.** (3-3-0). Prerequisite: consent of instructor.
- 5100. AMERICAN BIOGRAPHY.** (3-3-0). Representative Americans, their personalities, principles, policies, and influence on national and world thought and progress. Prerequisites: 2010, 2020.
- 5200. SEMINAR IN LOUISIANA HISTORY.** (3-3-0). Prerequisite: consent of instructor.
- 5320. SEMINAR IN EARLY AMERICAN HISTORY.** (3-3-0). Prerequisite: consent of instructor.
- 5340. SEMINAR IN MIDDLE-PERIOD AMERICAN HISTORY.** (3-3-0). Prerequisite: consent of instructor.
- 5350. SEMINAR IN CIVIL WAR AND RECONSTRUCTION.** (3-3-0). Prerequisite: consent of instructor.
- 5360. SEMINAR IN RECENT AMERICAN HISTORY.** (3-3-0). Prerequisite: consent of instructor.
- 5400. CASE STUDIES IN HERITAGE RESEARCH: A MULTIDISCIPLINARY APPROACH.** (3-3-0). The application of various research approaches to the study of heritage resources. A specific historical site or area will provide the focus of the semester's investigation. Prerequisite: graduate standing or consent of instructor.

- 5960. INTERNSHIP IN CULTURAL RESOURCES MANAGEMENT/HISTORIC PRESERVATION.** (3 or 6,0-0). At least twenty hours per week working with a federal, state, local or private organization/agency in one of the following historic preservation/cultural resource management areas: archaeology, archives management, ethnohistory, ethnology, historical research. May be repeated for credit. No more than 6 hours can be applied toward a degree. Prerequisite: must have completed a minimum of 18 graduate hours in history and/or anthropology and permission of instructor.
- 5980. THESIS.** (3 to 6-0-0).
- 6110. SEMINAR IN 17TH-CENTURY EUROPE.** (3-3-0). Prerequisite: consent of instructor.
- 6120. SEMINAR IN 18TH-CENTURY EUROPE.** (3-3-0). Prerequisite: consent of instructor.
- 6130. SEMINAR IN 19TH-CENTURY EUROPE.** (3-3-0). Prerequisite: consent of instructor.
- 6180. SEMINAR IN 20TH-CENTURY EUROPE.** (3-3-0). Prerequisite: consent of instructor.
- 6200. SEMINAR IN ENGLISH HISTORY.** (3-3-0). Prerequisite: consent of instructor.

HOSPITALITY MANAGEMENT AND TOURISM (HMT)

For Undergraduates Only

- 1000. SURVEY OF HOSPITALITY AND TOURISM.** (3-3-0). An introduction to the structure, operation, operating realities and main characteristics and constraints of hospitality services.
- 1010. TRAVEL AND TOURISM.** (3-3-0). A survey of travel and tourism, focus on concepts, terminology, demographics, financial significance, and trends. Prerequisite: 1000 or consent of instructor.
- 2000. COMPUTER APPLICATIONS.** (3-3-0). Application of computer technology in the hospitality management and tourism industry, introduction to software packages available in the field. Prerequisite: 1000 or consent of instructor, Computer 1020.
- 2020. COMMERCIAL RECREATION AND TOURISM.** (3-3-0). A study of the commercial recreation industry, its interrelationship to America and international lifestyles and its implications for the tourism industry. Prerequisite: 1000 or consent of instructor.
- 2050. THE TRAVEL AGENCY.** (3-3-0). An examination of the service and functions of retail and wholesale travel agencies. Prerequisite: 1000 or consent of instructor.
- 3000. LODGING MANAGEMENT.** (3-3-0). A systematic approach to lodging operations by detailing the flow of business through a lodging property, from the reservations process to check-out and settlement. Attention is given to the planning and evaluation of rooms division management and to human resources management. Prerequisite: 1000 or consent of instructor.
- 3010. INCENTIVE TRAVEL.** (3-3-0). The study of the use of travel as an incentive to help meet marketing objectives. Includes the organization and marketing of transportation, tour and ground operators, destination, and other creative services. Prerequisite: 1000 or consent of instructor.
- 3020. FOOD AND BEVERAGE MANAGEMENT.** (3-3-0). Provides a basis for understanding the various challenges and responsibilities involved in managing a food and beverage operation. Focuses on guest expectations and gives an excellent overview of the food service industry, including automation, the nutrition concerns of today's guests, menu management, marketing, sanitation, and financial management. Prerequisite: 1000 or consent of instructor.
- 3080. INSTITUTIONAL ORGANIZATION AND MANAGEMENT.** (3-3-0). Principles applied to institutional administration; personnel management and business organization; accounting principles applied to school cafeterias, residence halls, and commercial food-service units. Prerequisite: 1000 or consent of instructor.
- 3150. INTERNATIONAL TOURISM.** (3-3-0). A study tour of international travel and tourism. Focus on the economic, social, political, and environmental considerations of international tourism management and development. Expenses incurred to be paid by participant. Prerequisite: 1000 or consent of instructor.
- 4100. PROPERTY AND EQUIPMENT MANAGEMENT.** (3-3-0). Considers the engineering and maintenance needs of the hospitality/tourism industry, special emphasis on building environment and rehabilitation, mechanical and electrical equipment, utilities, and energy conservation management. Prerequisite: 1000 or consent of instructor.
- 4150. LEGAL ASPECTS OF HOSPITALITY/TOURISM MANAGEMENT.** (3-3-0). Laws and regulations in the hospitality industry and special emphasis on preventive legal management. Prerequisite: 1000 or consent of instructor.
- 4200. MARKETING HOSPITALITY MANAGEMENT AND TOURISM.** (3-3-0). Application of marketing principles to the hospitality/tourism industry. Plan and design a marketing strategy in an area of the field. Prerequisite: 1000 or consent of instructor

- 4250. ENTERTAINMENT MANAGEMENT.** (3-3-0). A study of entertainment's relationship to the hospitality/tourism management of tourist resorts, practices and problems associated with the entertainment industry including staffing, security and control. Prerequisite: 1000 or consent of instructor.

HUMANITIES (HUM)

For Undergraduates and Graduates

- 4010. HEALTH AND HUMANITY.** (3-3-0). Interdisciplinary investigations of death and dying, the experience of illness, metaphors of health and disease, transcultural factors in health care, and stereotypes and health care. Prerequisite: junior standing.
- 4020. HUMAN VALUES AND HEALTH CARE.** (3-3-0). Interdisciplinary investigations of philosophical concepts of humanhood, bioethics, historical issues of health care in America, and the holistic health movement. Prerequisite: junior standing.

For Graduates Only

- 5010. GREAT IDEAS OF WESTERN CULTURE.** (3-3-0). Lectures and critical discussions of the foundational ideas of Western culture: God, nature, education, justice, freedom, science, democracy, truth; assignments from Plato, Machiavelli, James, Whitehead, and others. Prerequisite: 12 hours of social sciences.

INDUSTRIAL TECHNOLOGY (IT)

To facilitate easy location and identification of courses to a particular area of content, each area of the department has been numbered as follows:

- 0-metals
- 1-power mechanics
- 2-diesel
- 3-electronics
- 4-technical drafting
- 6-woods
- 7-professional
- 8-vocational-industrial-technical
- 9-research problems and thesis

The key to the numbering system is as follows:

1. The first number indicates class level.
2. The second number indicates the content area.
3. The third number indicates the particular course.
4. The last number indicates lecture or laboratory.

Example:

Industrial technology 3750: (3)Junior level, (7)Professional course, (5)Specific course, (0)Lecture.

Each lecture course and related laboratory course is a combination taught as a unit; the two courses must be taken concurrently. If either course in such a lecture/laboratory combination is failed, it may be repeated without repeating the other. No student may use as part of his degree requirement a lecture course without the corresponding laboratory course (if one is available for that course) or a laboratory course without the corresponding lecture course unless otherwise stated in the course description.

All 4000-level courses are for undergraduate-graduate credit.

Metals (0)

- 1020. METALS TECHNOLOGY I.** (3-1-5). Basic tools, technology, and processing. Metals science, heat treating, sheet metal, bench metal, foundry practice, hand and basic machine tool operations; fasteners.
- 2020. METALS MACHINING I.** (3-1-5). Machine tool technology; operator controlled and computer controlled (CNC) machining and production centers. Precision measurement and layout. Survey of machining with EDM, HERF, Chem-Milling. Prerequisite: 1020.
- 3010. GENERAL WELDING.** (3-1-5). Theory, operation, and safe use of oxy-acetylene arc welding equipment. Flat, horizontal, and vertical position welding; weld testing and metal cutting.
- 4020. ADVANCED METALS MACHINING.** (3-1-5). Special practices of metals processing; CNC machining and CAD-CAM interfacing; machining systems. Prerequisite: 3020.

Power Mechanics (1)

- 2140. POWER MECHANICS I.** (3-1-5). Internal combustion engines; maintenance, diagnosis and repair of four-stroke and two-stroke cycle air-and water-cooled engines.

Technical Drafting (4)

- 1400. TECHNICAL DRAFTING I.** (3-1-5). Lettering, use of instruments, sketching, geometric construction, orthographic projection, sectioning, dimensioning, primary auxiliaries, isometric and oblique drawing.
- 1420. BLUEPRINT READING.** (3-1-5). Technical and symbolic communication used on blueprints and working drawings.
- 1450. COMPUTER AIDED DRAFTING AND DESIGN.** (3-3-0). Introduction to microcomputer solutions to multiview and pictorial problems and exercises. Prerequisite: 1400.
- 2400. TECHNICAL DRAFTING WITH AUTOCAD.** (3-3-0). Continuation of 1400 using AutoCAD as the drawing instrument. Working drawings, limit dimensioning, threads and fasteners, secondary auxiliary views, assembly drawings and production illustrations. Prerequisite: 1450.
- 2430. ELECTRONIC DRAFTING AND DESIGN.** (3-1-5). Drafting techniques in electronics; components and materials; specifications and design requirements, graphic symbols, schematic diagrams, circuit and chassis layout, printed circuits, block diagrams, graphs: rectilinear, logarithmic, polar; and nomographs. Prerequisite: 1400.
- 2450. DESCRIPTIVE GEOMETRY.** (3-1-5). Space relations of points, lines, surfaces, intersections and developed surfaces. Prerequisite: 1400.
- 3410. ADVANCED AUTOCAD APPLICATIONS.** (3-3-0). Detail and assembly drawing; cams, gears, graphs; pipe, welding, and structural drafting; 3D and surface modeling. Prerequisite: 1450.
- 3460. ARCHITECTURAL DRAFTING AND AUTOCAD.** (3-3-0). Principles and practices of home planning; procedures in residential construction; preparation of plans and specifications for a modern home using AutoCAD. Prerequisite: 1450.
- 4420. TOOL DESIGN.** (3-1-5). Design and construction of jigs and fixtures applicable to industrial production. Prerequisite: 1020, 1400.
- 4440. TECHNICAL ILLUSTRATION.** (3-1-5). Pencil, ink, airbrush and various materials utilized in production of presentation drawings and renderings of products, equipment and machinery; industry requirements. Prerequisite: 1400 or consent of instructor.

Woods (6)

- 1600. INTRODUCTORY WOODWORKING.** (3-1-5). Materials and processes; technical information regarding wood and related materials; hand and machine tools. Construction of a small furniture project using hand finishing techniques. No previous experience necessary.
- 2600. WOODWORKING.** (3-1-5). Advanced hand skills, operation of woodworking equipment, care and sharpening of tools, construction and finishing of a furniture project, technological developments in the wood industry. Prerequisite: 1600.
- 3660. ADVANCED WOODWORKING.** (3-1-5). Design and construction of furniture projects: design, joinery, finishes, advanced woodworking operations, machine maintenance and technological developments in industry. Prerequisite: 1600, 2600.
- 4650. INDUSTRIAL WOODWORKING.** (3-1-5). Application of industrial mass production techniques used in the construction of a wood product. Production planning, cost estimating, organization, development of a prototype, assembly line production. Prerequisite: 1600, 2600.
- 4680. BUILDING CONSTRUCTION.** (3-1-5). The construction industry. Designed to prepare the industrial education teacher for the curriculum offering at the junior high school level.

Professional (7)

- 1700. INTRODUCTION TO INDUSTRIAL TECHNOLOGY.** (1-1-0). Specific information concerning scholastic resources, study skills, academic requirements, academic and intellectual content, job opportunities, academic advising, scholarship, and employment opportunities.
- 2700. OCCUPATIONAL FIELD EXPERIENCE I.** (1-0-0). Work experience supervised by the student's departmental coordinator in related occupational areas. May be repeated. Prerequisite: approval of department head and placement in related job.
- 2710. PREPARATION OF VOCATIONAL-TECHNICAL EDUCATION INSTRUCTIONAL MATERIALS.** (3-3-0). Organization, development, and evaluation of instructional materials used in occupational/technical programs; includes visual aids, simulations, computer-assisted learning, and other teaching materials.

2740. **MATERIALS AND PROCESSES OF INDUSTRY.** (3-2-2). The science of industrial materials and the technology of materials processing. Plastics, metals, woods, plaster, fiberglass, rubber.
3700. **OCCUPATIONAL FIELD EXPERIENCE II.** (2-0-0). Work experience supervised by the student's departmental coordinator; for students who leave the campus for a full semester or summer to work full time in a major related occupational area. May be repeated. Prerequisite: approval of department head and placement in related job. Grade is pass/fail.
3720. **TECHNICAL WRITING.** (3-3-0). Fundamentals of technical report writing, industrial communications, preparation of materials for publication. Prerequisite: English 1020.
4700. **PRODUCTION ORGANIZATION AND MANAGEMENT.** (3-3-0). Examination and planning of shops, organizations, personnel, control methods, equipment and supplies.
4720. **QUALITY CONTROL.** (3-3-0). Methods and procedures employed in industrial quality control, theories of measurement, error, prediction, sampling, tests of significance and models. Prerequisite: Mathematics 1810 or consent of instructor.
4730. **MANUFACTURING PROCESSES.** (3-2-2). Design, economics, and control of manufacturing processes. Methods engineering, job shop and automation practices; machining and fabrication processes.
4750. **ELEMENTS OF OCCUPATIONAL SUPERVISION.** (3-3-0). Preparation, training, and problems of the supervisor.
4760. **MOTION AND TIME STUDY.** (3-3-0). Analysis of motions necessary to perform industrial operations; motion economy; development of ratings, allowances, standard data, formula construction, work sampling, wage payment and performance training. Prerequisite: Mathematics 1810.
4790. **STRENGTH OF INDUSTRIAL MATERIALS.** (3-2-2). Internal stresses and deformation of bodies resulting from action of external forces; concepts and techniques of testing tensile, compression, shear, transverse, elasticity on various materials and fasteners.

Vocational-Industrial-Technical (8)

1800. **OCCUPATIONAL SAFETY AND HEALTH.** (3-3-0). Principles and practices of accident prevention and safety program operation in industrial facilities and school laboratories; effective safety organization, management and supervision; teacher, administrator and management liabilities; OSHA (Occupational Safety and Health Act.)
1860. **FOUNDATIONS OF VOCATIONAL-TECHNICAL EDUCATION.** (3-3-0). Purposes, objectives, and evolution of vocational-industrial education.
2810. **OCCUPATIONAL ANALYSIS AND COURSE DEVELOPMENT.** (3-3-0). Analyzing trades and jobs into learning and doing units as a means of determining teaching content.
2830. **ADVANCED INDUSTRIAL SAFETY ENGINEERING AND MANAGEMENT.** (3-3-0). Recognition and control of occupational safety and health hazards; human relations for safety; psychological considerations; human engineering; management and supervisory leadership. Prerequisite: 1800 or consent of instructor.
2840. **DEVELOPMENT OF OCCUPATIONAL SAFETY AND HEALTH PROGRAMS.** (3-3-0). Programs for plants and systems operations; systems analysis. Comprehensive occupational safety and health programs developed by students. Prerequisite: 1800.
3840. **MANAGEMENT OF VOCATIONAL-TECHNICAL EDUCATION CLASSROOMS/ LABORATORIES.** (3-3-0). Organization and administration of industrial arts and vocational-industrial programs; relationship of federal and state government to local administration. Intended for industrial education teachers and supervisors, and school administrators.
3850. **METHODS OF TEACHING IN VOCATIONAL-TECHNICAL EDUCATION.** (3-3-0). Examination and preparation of materials; analysis of learning difficulties; success factors in teaching related work; planning and teaching a unit of study.
4820. **PRODUCTION AND INVENTORY CONTROL.** (3-3-0). Planning and control of production; operation analysis; routing, scheduling, dispatching; production charts and boards; inventory control; accumulation of material requirements; use of critical path techniques.
4850. **PROBLEMS IN TEACHING VOCATIONAL-INDUSTRIAL EDUCATION.** (3-3-0). Current and special interest problems in vocational-industrial education. May be repeated for a maximum of six semester hours of credit.
4860. **STUDIES IN OCCUPATIONAL SAFETY AND HEALTH ENGINEERING.** (1 to 9-3-0). Safety and health engineering problems or systems:
 - 01-OSHA provisions and standards
 - 02-problems of accident prevention
 - 03-safety in the school shop
 - 04-safety engineering in facilities design
 - 05-materials handling

- 06-fire prevention and control
- 07-guarding systems
- 08-occupational hygiene
- 09-inspection programs and accident investigation.

May be repeated for a maximum of nine semester hours to be applied toward a degree. No more than three semester hours may be earned in any one area of concentration. Prerequisite: 1800 or consent of instructor.

- 4880. TESTING AND EVALUATION IN VOCATIONAL-TECHNICAL EDUCATION. (3-3-0).** Preparing and administering written and performance tests; developing and using criteria for the evaluation of vocational programs.

Research-Special Problems-Thesis (9)

- 4920. SPECIAL PROBLEMS. (1 to 3-0-0).** Selection of special problems; individual or committee work for them. Area of concentration as follows:
- 01N-electronics
 - 02N-drafting
 - 03N-metals
 - 04N-power mechanics
 - 05N-woods
 - 06N-welding
 - 07N-occupational safety and health
 - 08N-plastics and materials
- 4920. SPECIAL PROBLEMS. (1 to 3-0-0).** Selection of special problems; individual or committee work for them. Area of concentration as follows:
- 01N-electronics
 - 02N-drafting
 - 03N-metals
 - 04N-power mechanics
 - 05N-woods
 - 06N-welding
 - 07N-occupational safety and health
 - 08N-plastics and materials
- 4950. RESEARCH PROBLEMS. (1 to 3-0-0).** The student selects a problem in his major field and through investigation formulates an acceptable solution. Area of concentration is identified as follows:
- 01N-electronics
 - 02N-drafting
 - 03N-metals
 - 04N-power mechanics
 - 05N-woods
 - 06N-welding
 - 07N-occupational safety and health
 - 08N-plastics and materials

Automotive (1) Ft. Polk Campus Only

- 1150. BASIC AUTO MECHANICS. (3-2-2).** Internal combustion engines; diagnosis and service of ignition, carburetion, and emission control systems.
- 1170. AUTOMOTIVE ELECTRICAL AND BRAKING SYSTEMS. (3-2-2).** Electricity; diagnosis and service of storage batteries, charging systems, starting system; electrical circuits and accessories; braking system. Prerequisite: consent of instructor.
- 1180. AUTOMOTIVE ENGINE OVERHAUL. (3-2-2).** Design, function, and failure of internal components of automobile engines. Complete breakdown, diagnosis, service, recondition, and assembly techniques. Prerequisite: 1150 or consent of instructor.
- 2150. AUTOMOTIVE AIR CONDITIONING. (3-2-2).** Principles of air conditioning, operating characteristics of components, charging, and evacuating automotive air conditioning systems, use of testing equipment, safety and protective devices.
- 2160. AUTOMOTIVE SUSPENSION AND DRIVE TRAIN. (3-2-2).** Design, inspection, and service of automotive steering mechanism, chassis, wheel bearings, tire balance, clutches, standard transmission, automatic transmission, drive shaft, and differential assembly. Prerequisite: 1150 or consent of instructor.

- 2170. ADVANCED DIAGNOSTIC PROCEDURES.** (3-2-2). Diagnostic and trouble-shooting techniques and equipment. Complex problems and experiences involving the testing of engine ignition, carburetion and electrical systems. Prerequisite: 1150 or consent of instructor.

Diesel (2)
Ft. Polk Campus Only

- 1200. INTRODUCTION TO DIESEL ENGINES.** (3-2-2). Size, speeds, designs, configurations, heat, cooling and lubrications of diesel engines. Principals of operation, general preventive maintenance, relationship of parts and used in engines.
- 1210. DIESEL ENGINE OVERHAUL.** (3-2-2). Reconditioning, new parts, gaskets, seals, and sizing parts to factory specifications, engine marks, gears, rods, bearings, pistons, housings, and shafts. Cylinder heads, valves, seats, cams, lifters, and the oiling system checks.
- 1220. DIESEL ELECTRICAL AND STARTING SYSTEMS.** (3-2-2). Problem solving on electrical circuits, testing, storage batteries, starting systems, charging, ignition circuits, emergency shut down circuits, solenoids, amps, and voltage.
- 1230. DIESEL POWER TRAINS.** (3-2-2). Components of powertrain, flywheel, clutch, torque converters, fluid drive, mechanical transmissions, automatic transmissions, drive lines, differential and final drives, power take off, and special drives.
- 1240. INTRODUCTION TO FUEL-INJECTION SYSTEMS.** (3-2-2). Diesel fuels and characteristics, fuel systems, components and functions, types of governors and functions, service and test, injector nozzles, distributor injector pump, unit injectors, in line injector pump, pressure-timed fuel system.
- 1250. DIESEL HYDRAULIC SYSTEMS.** (3-2-2). Components of basic hydraulic circuits and functions, reservoirs, lines, sealing devices, fluids and filters, pumps, valves, cylinders, motors, accessories, circuits, diagrams and symbols.
- 1260. DIESEL BRAKES, STEERING, AND SUSPENSION SYSTEMS.** (3-2-2). Operation of brake system (air and hydraulic), "S" head cam air brakes, wadetype, disc brakes, and hydraulic, air chambers, operation of steering system, suspension system.
- 1270. DIESEL AIR CONDITIONING.** (3-2-2). Principles of air conditioning systems, refrigerants, oils, components of air conditioning systems and their functions, service equipment and their uses, service of air conditioning systems.

Welding (0)
Ft. Polk Campus Only

- 1030. BEGINNING ELECTRIC ARC WELDING.** (3-2-2). Application and use of electric arc welding as a metal-fabrication process of ferrous metals.
- 2000. ADVANCED WELDING TECHNIQUES.** (3-2-2). Special processes; welding machines; tests of welding; resistance, upset, and submerged welding. Prerequisite: 1030 or 3010.
- 2010. TECHNICAL WELDING.** (3-2-2). Oxy-acetylene and electric arc welding of ferrous and non-ferrous materials; welding of low alloy and high alloy steels, cast iron, aluminum, magnesium, pewter and other non-ferrous materials; TIG and MIG operation and welding methods with inert gas. Prerequisite: 1030 or 3010 or consent of instructor.
- 2030. WELDING METALLURGY.** (3-2-2). Composition and types of metals, crystalline structure; heat treatments, hardening, annealing, hard facing and strength of materials. Prerequisite: credit for six hours in welding.
- 2040. WELDING DESIGN PROBLEMS.** (3-2-2). Blueprint drawings; welding codes; pressure vessels; manufacturing designs; cost analysis; time studies; jig and fixture design; mass production technique. Prerequisite: 2090.
- 2090. BEGINNING OXY-ACETYLENE WELDING.** (3-2-2). Oxy-acetylene welding, brazing and soldering of ferrous and nonferrous metals.

JAPANESE (JPN)
For Undergraduates Only

- 1010. INTRODUCTION TO JAPANESE I.** (3-3-0). Beginning Japanese.
- 1020. INTRODUCTION TO JAPANESE II.** (3-3-0). Continuation of beginning Japanese.
- 2010. INTERMEDIATE JAPANESE.** (3-3-0). Continuation of first-year Japanese, with emphasis on oral skills. Prerequisite: 1020.

JOURNALISM (JOUR)

For Undergraduates Only

- ¹1980. **MASS COMMUNICATIONS PRACTICUM.** (1-1-0). Supervised activity on the university communication media, professional association competitions, student communication agencies, or other faculty approved experimental components of the journalism degree program. Prerequisite: consent of instructor.
- ~ 2010. **SURVEY OF MASS COMMUNICATIONS.** (3-3-0). Survey of historical development of mass media; communication agencies in society; areas of professional work in mass communication; concept of global village and impact of print and non-print media.
- 2410. **THE BROADCAST INDUSTRY.** (3-3-0). History, development and organizational patterns and functions of radio and television; practical experience in studio control-room operations for broadcasting.
- ~ 2510. **NEWSPAPER REPORTING I.** (3-3-0). Basic newswriting. Prerequisite: English 1010 and 1020 with at least a C in each course and ability to type.
- 2520. **ADVANCED WRITING FOR PRINT MEDIA.** (3-2-2). Advanced writing for newspaper and magazine journalism and public relations media, including media releases, brochures, newsletters, annual reports, proposals, letters, image and advocacy advertising, and other persuasive communications.
- 2610. **PHOTOGRAPHY FOR MASS COMMUNICATIONS.** (3-2-3). Beginning concepts in photography including the use of cameras, darkroom equipment, film processing and printing. Electronic image gathering with contemporary digital technology and techniques in composition for photojournalism and publication are included.
- ¹2980. **MASS COMMUNICATIONS PRACTICUM.** (2-2-0). Supervised activity on the university communication media, professional association competitions, student communication agencies, or other faculty approved experimental components of the journalism degree program. Prerequisite: consent of instructor.
- 3040. **COMMUNICATION LAW.** (3-3-0). Legal limitations and privileges affecting publishing, broadcasting, and advertising. Prerequisite: senior standing.
- 3060. **PUBLIC RELATIONS PRINCIPLES.** (3-3-0). A study of the policies, procedures, ethics, and practices of building and maintaining positive relationships with an organization's various internal and external publics.
- 3080. **EDITING PRINT MEDIA.** (3-3-0). Purposes, methods and techniques of editing newspapers, yearbooks, magazines, brochures and other print media. Prerequisite: 2510 or consent of instructor.
- 3260. **WRITING FOR MASS MEDIA AND PUBLIC RELATIONS.** (3-3-0). An introduction to application of writing and other creative techniques across the mass media and public relations.
- 3420. **RADIO NEWS WRITING.** (3-2-3). Researching, writing and reporting for radio with practical experience in the use of these skills. Provide stories and live news casts for the student radio station KNWD. Prerequisite: 2510.
- 3450. **BASIC TELEVISION TECHNIQUES.** (3-2-3). Television equipment and studio practices. Practice with television cameras, microphones, dollies; television terminology. Prerequisite: sophomore standing.
- 3470. **ELECTRONIC MEDIA ANNOUNCING.** (3-3-0). Principles and practice to develop a range of announcing skills applicable to electronic media, including news delivery, interviewing, event narration, entertainment delivery, panel moderation, and persuasive message delivery.
- ~ 3510. **PRINCIPLES OF ADVERTISING.** (3-3-0). An introductory survey of the purposes, procedures, and effects of advertising, including legal and ethical responsibilities, societal roles, research procedures, media planning, creative strategy, and the environment of advertising practice. Prerequisite: 2510 or consent of instructor.
- 3530. **BASIC PRINT MEDIA DESIGN AND LAYOUT.** (3-3-0). Practical, hands-on experience in the design, layout and production of news and public relations print media with assignments on desktop publishing hardware and software.
- 3660. **PUBLIC RELATIONS CASES AND RESEARCH.** (3-3-0). A study of cases in public relations management policies, practices, issues, and strategies; a study of audience, message, and media research in public relations with a focus on analysis and use of public opinion research. Prerequisite: 3060 or consent of instructor.
- ¹3980. **MASS COMMUNICATIONS PRACTICUM.** (3-3-0). Supervised activity on the university communication media, professional association competitions, student communication agencies, or other faculty approved experimental components of the journalism degree program. Prerequisite: consent of instructor.

- 4010. FEATURE WRITING.** (3-3-0). Writing feature stories for the weekly newspaper. Prerequisite: 2510.
- 4060. PUBLIC RELATIONS CAMPAIGNS.** (3-3-0). Public relations campaign/event analysis, research, planning, creative strategy, media planning, management, and evaluation. Development of a major campaign project. Prerequisite: 3660 or consent of instructor.
- 4100. ADVANCED FEATURE WRITING.** (3-3-0). Continuation of 4010. Prerequisite: 4010.
- 4200. MASS COMMUNICATIONS INTERNSHIP.** (3-0-0). For students of advanced qualifications in mass communications. Prerequisites: junior standing and consent of instructor. Three to six hours of practicum and one hour per week instructional supervision.
- 4300. COMMUNICATIONS RESEARCH.** (3-3-0). Basic terminology and methodology of research in mass communications. Theoretical and applied research problems will be examined. Prerequisite: junior or senior standing.
- 4310. ETHICS IN JOURNALISM.** (3-3-0). A study of ethics and applied situations in journalism.
- 4400. TELEVISION NEWS REPORTING.** (3-2-3). Shooting, editing, writing and producing television news; planning and preparation for production of live newscasts complete with video packages. Prerequisite: 2510, 3420, 3450, 3470 or consent of instructor.
- 4440. ADVANCED TELEVISION REPORTING.** (3-2-0). Techniques and methods in investigation and preparation for in-depth stories and packages for the radio and television audience. Prerequisite: 2510, 3450, 3470 or consent of instructor.
- 4450. ADVANCED WRITING FOR ELECTRONIC MEDIA.** (3-3-0). Script writing and production planning for news, public relations, corporate, public service, and educational communication through television audio and video production.
- 4460. DIRECTING TELEVISION ACTIVITIES.** (3-3-0). Practical application of Journalism 4450 with emphasis on rehearsing and telecasting educational programs. Prerequisite: 4450 or consent of instructor.
- 4500. PUBLIC AFFAIRS AND INVESTIGATIVE REPORTING.** (3-3-0). Purpose, scope and methods of reporting on public bodies. Prerequisite: junior or senior standing.
- 4530. ADVERTISING CAMPAIGNS.** (3-3-0). Advertising campaign analysis, research, planning, creative strategy, media planning, management, and evaluation. Development of a major campaign project. Prerequisite: 3510 or consent of instructor.

¹ Course may be repeated for credit but only six hours of credit from any combination of Journalism 1980, 2980, 3980 may be applied toward a degree.

For Undergraduates and Graduates

- 4180. SEMINAR IN PUBLIC RELATIONS.** (3-3-0). Reading, research, analysis, and discussion of current topics in public relations practice. Prerequisite: consent of instructor. May be repeated for graduate or undergraduate credit as the seminar topic varies.
- Subtitles:
- 01-Societal role and effects of public relations.
 - 02-Research and evaluation in public relations.
 - 03-Ethics in public relations practice
 - 04-Management of special events
 - 05-Public relations administration
 - 06-Public relations in integrated marketing communication
 - 07-Modern public relation communication techniques
 - 08-Public service and health care communication
 - 09-Corporate culture environment of public relations
 - 10-Current controversies in public relations
- 4520. SPECIAL PROBLEMS IN MASS COMMUNICATIONS.** (1 to 3-3-0). Study of special topics or problems in mass communications. Prerequisite: Consent of instructor. Repeatable for undergraduate credit only to six hours as subject changes.

LEGAL ASSISTANT PROGRAM (LAP)

For Undergraduates Only

- 3010. INTRODUCTION TO LAW.** (3-3-0). Development of common and civil law traditions in the U.S.; trends in the legal profession; role of a legal assistant.
- 3020. LEGAL RESEARCH.** (3-3-0). Methods and tools of legal research; primary and secondary sources of law.

- 3030. LITIGATION.** (3-3-0). Differences in civil and criminal litigation; preparation and examination, under attorney supervision, of forms and documents relating to litigation.
- 3040. ESTATES, TRUSTS, WILLS.** (3-3-0). Preparation of legal documents, under the supervision of attorney, associated with planning estates and other related matters.
- 3050. CORPORATIONS.** (3-3-0). Preparation of initial and amended articles of incorporation and other documents and transactions pertaining to corporations.
- 3060. REAL ESTATE AND MORTGAGES.** (3-3-0). Preparation and information regarding basic real estate transfers and associated documents; title searches, preparation of preliminary abstracts of titles, etc. under the supervision of an attorney.
- 3070. FAMILY RELATIONS LAW.** (3-3-0). Preparation of documents, knowledge of procedures and other matters related to domestic relations law.
- 3080. LAW OFFICE ADMINISTRATION.** (3-3-0). Approaches to the organization and efficient operation of the law office.

LIBRARY EDUCATION (LIBR)

For Undergraduates Only

- 4160. BOOKS AND MATERIALS FOR CHILDREN.** (3-3-0). Printed and non-print materials in relation to the needs and interests of children. Selection and evaluation; sources and use of materials with children. Prerequisite: 4050, consent of instructor, or valid teaching certificate.

For Undergraduates and Graduates

- 4050. INTRODUCTION TO REFERENCE MATERIALS AND SERVICES.** (3-3-0). Basic reference sources for school, community, and special library service; their use in curricula units and in adult education; practice in reference methods in locating information. Prerequisite: admission to candidacy for a degree in teacher education or a valid teaching certificate.
- 4060. APPLIED RESEARCH-GENEALOGY.** (3-3-0). Survey and evaluation of resources applicable to genealogy.
- 4070. ADMINISTRATION AND ORGANIZATION OF LEARNING CENTERS.** (3-3-0). Current practices and major problems confronting the new concept of the school library as an instructional center. Preparation for school library practice work. Prerequisites: 4160 or 4170. Designed for education majors.
- 4100. LIBRARY PRACTICE WORK.** (3 to 6-0-9 to 18). Observation and supervised practice work in all areas of the library. This course fulfills a requirement for school librarians. Prerequisites: 4060, 4160 or 4170, 4180, and 4070.
- 4120. LITERATURE OF THE CURRICULUM.** (3-3-0). Library materials in the fields of science and technology, humanities, and social sciences; source materials for research; selection of books, maps, periodicals, audio-visual materials, for school libraries. (Elective for secondary students.)
- 4170. BOOKS AND MATERIALS FOR THE YOUNG ADULT.** (3-3-0). Print and non-print materials in relation to the needs and interests of the adolescent. Selection and evaluation; sources and use of materials with adolescent. Prerequisite: 4160, consent of instructor, or valid teaching certificate.
- 4180. ORGANIZATION OF LIBRARY COLLECTIONS.** (3-3-0). Dewey decimal classification systems and principles of descriptive cataloging. Prerequisite: 4050; ability to type; consent of instructor; or valid teaching certificate.
- 4181. ORGANIZATION OF LIBRARY COLLECTIONS LABORATORY.** (0-0-2). Supervised laboratory to augment 4180. Prerequisite: 4050; consent of instructor; valid teaching certificate; concurrent enrollment in 4180.

For Graduates Only

- 5020. LIBRARY MATERIALS FOR CHILDREN.** (3-3-0). Standard and contemporary trends and issues regarding books and audio-visual materials needed to support the curriculum and for recreational reading. (Same as Education 5040.)

MANAGEMENT (MGT)

For Undergraduates Only

- 1020. BASIC LEADERSHIP.** (2-2-0). Application of the principles of leadership and management by objectives.

- 2500. PERSONNEL AND SUPERVISION.** (3-3-0). For practicing or potential first-line supervisors and middle-level managers. Managerial functions of planning, organizing, staffing, directing and controlling as they relate to personnel supervision.
- 3220. ORGANIZATION AND MANAGEMENT.** (3-3-0). Management processes and ethics, with focus on the management of people in organizations, their behavior, motivation, and interactions with management structure. Prerequisite: junior standing. A common body of knowledge course.
- 3500. MANAGEMENT SCIENCE TECHNIQUES.** (3-3-0). Major statistical and quantitative techniques useful in modern management. Prerequisites: successful completion of Accounting 2000 and Business Administration 2120 or Accounting 2000 and SSTA 2810.
- 3580. PRODUCTION SYSTEMS MANAGEMENT.** (3-3-0). Planning, analysis and control of production systems. Application of management information systems to production. Prerequisite: successful completion of Management 3220 and Business Administration 2120 or Management 3220 and SSTA 2810.
- 4270. PERSONNEL MANAGEMENT.** (3-3-0). Industrial and personnel management; the case study approach, independent reading and investigation, and oral presentation. Prerequisite: 3220.
- 4300. MANAGEMENT POLICY.** (3-3-0). An integrative case method course: analysis, problem solving and decision making; emphasis on application of all basic common body of knowledge courses. Prerequisites: 3220, marketing 3230, finance 3090, last semester senior standing. A common body of knowledge course.
- 4320. ADVANCED MANAGEMENT.** (3-3-0). Selected management topics; reading, investigation, and presentation. Prerequisite: 3220.
Subtitles:
01-business ethics
02-managerial decision analysis
- 4350. JAPANESE MANAGEMENT.** (3-3-0). Survey of Japanese management methods, organization, employment policies, marketing, and distribution, and other aspects. The Japan-US relationship, and prospects for the future. Prerequisite: 3220 and Marketing 3230.
- 4400. THE MANAGEMENT OF CHANGE.** (3-3-0). Factors relating to the accelerated rate of change and their implications for management. Technological, social, and economic changes with problems of resistance to change, executive obsolescence and predictions for the future. Prerequisite: 3220.

MARKETING (MKTG)

For Undergraduates Only

- 2200. SALESMANSHIP.** (3-3-0). Selling, sales techniques, sales role-playing, and characteristics of a good sales person. History of selling and the salesperson's role in our economy included to provide a deeper understanding of the contributions made by the American salesman. Not open to students with credit in 3230.
- 3230. PRINCIPLES OF MARKETING.** (3-3-0). Marketing functions, channels of distribution, marketing institutions, marketing analysis, price determinants, marketing trends. Prerequisite: Economics 2010 or consent of instructor.
- 3820. MARKETING PROMOTIONS.** (3-3-0). Communication problems inherent in flow of marketing information; advertising, sales promotion, sales analysis, marketing research. Prerequisite: 3230.
- 3900. SERVICES MARKETING.** (3-3-0). Developing, pricing, distributing, and promoting the service; control of quality of customer encounters through service automation and/or employee selection and training; place of marketing in service organization structure; strategic implications of structure of service industries. Prerequisite: 3230.
- 4100. MARKETING MANAGEMENT.** (3-3-0). Elements of marketing; relationship of marketing problems to policy decisions in other divisions of business organization; recent developments and oral presentation. Prerequisite: 3230.
- 4200. PERSONAL SELLING.** (3-3-0). The principles of the personal selling process, analysis of the market and the product, development and delivery of the sales presentation, and relationship building. Prerequisite: 3230.
- 4350. RETAIL MANAGEMENT PROBLEMS.** (3-3-0). Retailing functions in large and small establishments; personnel selection, training and supervision; logistics; merchandise management; relations with suppliers; management of non-merchandising functions. Prerequisite: 3230.
- 4370. CONSUMER BEHAVIOR.** (3-3-0). Behavioral theories relevant to consumer motivations and buyer behavior. Psychology, sociology and anthropology as aids to the development of marketing policies and strategies. Prerequisite: 3230.

- 4440. MARKETING RESEARCH.** (3-3-0). The academic and applied elements of marketing research, including modeling, sampling, survey, instrument design, data collection, computer-based data analysis and data presentation. Prerequisites: Marketing 3230 and Business Administration 2120 or Marketing 3230 and SSTA 2810.

MATHEMATICS (MATH)

For Undergraduates Only

Placement in first year mathematics is based on ACT or SAT scores

- 0910. INTRODUCTION TO BASIC MATHEMATICS-LEVEL I.** (3-3-0). Basic arithmetic for those not prepared to take a beginning course in college mathematics. Students who earn credit in this course will have three hours added to degree requirements. Corequisite: registration in 0912.
- 0912. INTRODUCTION TO BASIC MATHEMATICS-LEVEL I RECITATION.** (2-2-0). Solving problems from concepts covered in 0910. Students who earn credit in this course will have two hours added to their total degree requirements. Corequisite: registration in 0910.
- 0920. INTRODUCTION TO BASIC MATHEMATICS-LEVEL II.** (3-3-0). Arithmetic with an introduction to elementary algebra for those who are not prepared to take a beginning course in college mathematics. Students who earn credit in this course will have three hours added to degree requirements. Prerequisite: placement based on ACT, SAT, Mathematics Placement Examination or course grade of C or higher in Mathematics 0910. Corequisite: registration in 0922.
- 0922. INTRODUCTION TO BASIC MATHEMATICS-LEVEL II RECITATION.** (2-2-0). Solving problems from concepts covered in 0920. Students who earn credit in this course will have two hours added to their total degree requirements. Corequisite: registration in 0920.
- 1010. INTRODUCTION TO MATHEMATICS.** (1-1-0). Specific information concerning scholastic resources, study skills, academic requirements, academic and intellectual content, job opportunities, academic advising, scholarship, and employment opportunities.
- 21020. COLLEGE ALGEBRA.** (3-3-0). A graphing treatment of the topics considered essential for a college algebra course with emphasis on functions, graphs, and applications. A graphing calculator will be required in the course. Prerequisite: placement based on Mathematics section of ACT, SAT, Mathematics Placement Examination, or grade of C or better in Mathematics 0920.
- 21060. FINITE MATHEMATICS.** (3-3-0). Linear models, matrix theory, linear programming, permutations, combinations, probability, statistics, Markov chains, mathematics of finance. Prerequisite: 1020.
- 21090. TRIGONOMETRY** (3-3-0). Trigonometric functions; relations between functions; solution of triangles with applications to practical problems; trigonometric formulas and identities; radian measure; graphic representation of trigonometric functions; inverse trigonometric functions, trigonometric equation. Prerequisite: registration in or credit for 1020 or consent of department head. Credit not allowed in 1100 and 1020-1090.
- 1100. PRECALCULUS MATHEMATICS.** (6-6-0). An accelerated study of college algebra and college trigonometry topics from analytic geometry, the concept of function, and the construction and interpretation of graphs. Prerequisite: placement based on Mathematics section of ACT, SAT, or grade of C or higher in Mathematics 0920. Credit not allowed in this course and 1810, or 1020-1090.
- 1810. TECHNICAL MATHEMATICS.** (6-6-0). Mathematics for Industrial Technology students. Course includes concepts and applications of algebra, trigonometry, and statistics. Prerequisite: placement based on mathematics section of ACT, SAT, or course grade of C or higher in Mathematics 0920. Credit will not be given for this course and Mathematics 1100, or 1020-1090 or 1030-1090.
- 22010. SURVEY OF CALCULUS.** (3-3-0). Basic concepts of calculus; applications in other disciplines. Credit not allowed in both 2010 and 2100. Prerequisite: 1020.
- 2020. CALCULUS FOR ELECTRONICS.** (6-6-0). Fundamentals of differential and integral calculus with applications in electronic engineering technology. Includes Fourier Series, elementary differential equation solutions and Laplace Transforms. Prerequisite: 1810 or equivalent.
- 2030. ELEMENTARY AND MIDDLE SCHOOL MATHEMATICS.** (3-3-0). Mathematical concepts, applications, and processes relating to elementary and middle school mathematics. Prerequisite: completion of University core mathematics requirements.
- 2040. INFORMAL GEOMETRY.** (3-3-0). The study of the geometry of one, two, and three dimensions in a variety of situations. Prerequisite: 2030.

- 2050. MATHEMATICS OF STATISTICS.** (3-3-0). Statistics as a scientific tool; frequency distributions, tabular and graphical representation of data; measures of central tendency; normal curve; correlation; sampling; probability curve fitting; limitations of theory. Prerequisite: three hours of mathematics.
- 2070. GRAPH THEORY.** (3-3-0). An introduction of graphs and a sampling of their numerous and diverse applications. Prerequisite: completion of university mathematics core courses.
- 2080. DISCRETE MATHEMATICS FOR COMPUTER SCIENCE.** (3-3-0). Propositional and first order logic, constructive proofs, mathematical induction, set theory, relations, functions, recursions, computability and recurrence relations, graph theory and graph algorithms, Turing machines. Prerequisites: 1020 and 1090 or consent of instructor. (Same as Computer Science 2080)
- 2100. ANALYTICAL GEOMETRY AND CALCULUS I.** (5-5-0). Elementary concepts of analytical geometry, functions, limits, and continuity, derivatives and applications, integration and applications of integration. Prerequisites: grade of C or higher in 1020 and 1090, or consent of department head.
- 2110. ANALYTICAL GEOMETRY AND CALCULUS II.** (5-5-0). Definite integrals and applications, conics, transcendental functions, integration, parametric equations, plane curves and polar coordinates, improper integrals, intermediate forms. Prerequisite: 2100.
- 3000. SPECIAL PROBLEMS.** (1-1-0). A preparation course designed for students competing in mathematical modeling contests, problem-solving competitions, and other competitive testing programs sponsored by regional and national mathematics organizations. The course may be repeated a maximum of two times.
- 3020. FOUNDATIONS OF GEOMETRY.** (3-3-0). Plane geometry, solid geometry, coordinate geometry, non-Euclidean geometry, nature of proof, deductive reasoning, measurement, construction, areas, and volumes. Prerequisite: 3090.
- 3090. LINEAR ALGEBRA I.** (4-4-0). Linear spaces, linear transformations, matrices, determinants. Prerequisite: 2080, 2110.
- 3100. MODERN ALGEBRA I.** (3-3-0). Introductory concepts; equivalence and congruence; Boolean algebra; groups, fields, rings, ideals. Prerequisite: 3090.
- 3130. ANALYTICAL GEOMETRY AND CALCULUS III.** (3-3-0). Function in three-dimensional space, multiple integrals, infinite series. Prerequisite: 2110.
- 3150. THEORY OF PROBABILITY.** (3-3-0). Introductory concepts; elementary principles of the theory of probability; dependence; expectation; binomial distribution; other distribution functions; applications. Prerequisite: 3090.
- 3160. ORDINARY DIFFERENTIAL EQUATIONS.** (3-3-0). First order equations, general equations, non-homogeneous equations, differential operators, the Laplace transform. Prerequisite: 2110.
- 3200. COMBINATORICS.** (3-3-0). Counting methods; generating functions; recurrence relations; inclusion-exclusion; circuits and graphs.
- 3450. INTRODUCTION TO NUMERICAL ANALYSIS.** (3-3-0). Numerical techniques for finding roots of general equations; interpolation; numerical differentiation; numerical integration; matrix manipulation; solutions of systems of equations and differential equations. Prerequisite: 2110.
- 4140. INTEGRAL TRANSFORMS.** (3-3-0). Integral transforms with their applications to elementary problems in vibrations, diffusion, static potentials, and boundary value problems. Laplace and Fourier transforms will be emphasized. The course will present a sound mathematical analysis as well as applications. Prerequisite: 3130.
- 4950. MATHEMATICS-A CAPSTONE COURSE.** (3-3-0). A synthesis of previous mathematics courses; individually directed research; preparation for employment and teaching; an exit exam preparation. Prerequisite: senior standing and consent of the department head.
- 4960. MATHEMATICS-A CAPSTONE COURSE II.** (3-3-0). A continuation of directed study and independent research conducted in 4950.

¹ 0910 and 0920 may not be used to satisfy the mathematics requirements in any curriculum.

² Acceptable sequences: 1020-1060, 1020-1090, 1020-2010.

For Undergraduates and Graduates

- 4030. COLLEGE GEOMETRY.** (3-3-0). Logical systems and basic laws of reasoning; topics of axiomatic geometry; Menelaus's and Ceva's theorems; harmonic elements and cross ratio; inversion theory; introduction to projective geometry. Prerequisite: 12 hours of mathematics, including 2100.

- 4060. THEORY OF NUMBERS.** (3-3-0). Foundations of the number system; repeating decimals; congruences; diophantine equations; continued fractions; quadratic residues. Prerequisite: 3090.
- 4070. HISTORY OF MATHEMATICS.** (3-3-0). History of the number system and development of the subject matter of arithmetic, algebra, and geometry on the elementary and secondary level; contributions of trigonometry, analytic geometry, and calculus. Prerequisite: 2100.
- 4090. THEORY OF EQUATIONS.** (3-3-0). Simultaneous linear equations in two and three variables; complex numbers; properties of polynomials; elementary theorems on roots of equations; transformation of equations; cubic and quartic equations; isolation of real roots; numerical equations, determinants; symmetric functions; resultants; use of ruler and compasses in constructions. Prerequisite: registration in or credit for 2110.
- 4100. DISCRETE MATHEMATICS.** (3-3-0). Graphs; applications of graphs; Markov chains.
- 4110. MODERN ALGEBRA II.** (3-3-0). Special field structure of groups, lattice. Prerequisite: 3100.
- 4130. TOPICS IN GAME THEORY.** (4-4-0). Zero sum games; strategies; infinity games; utility theory; N-Person games; indices of power; bargaining sets. Prerequisite: 3150.
- 4150. FOUNDATIONS OF MATHEMATICS AND COMPUTABILITY.** (3-3-0). An introduction to mathematical logic and computability. Topics to be covered include formal languages, first order logic, axiom systems, incompleteness and decidability, computability, and applications of logic and computability to computer science and programming languages.
- 4170. ADVANCED CALCULUS.** (3-3-0). Advanced phases of limits and continuity; derivatives and differentials; functions of several variables; definite integrals; multiple integrals; line integrals; infinite series. Prerequisite: 3090.
- 4200. THEORY OF FUNCTION OF A COMPLEX VARIABLE.** (3-3-0). Real and complex numbers; differentiation and integration of a complex variable; mapping of elementary functions; linear fractional transformations; infinite series. Prerequisite: 4170 or consent of department head.
- 4260. PARTIAL DIFFERENTIAL EQUATIONS.** (3-3-0). Second order linear partial differential equations with mixed boundary conditions; orthogonal systems and their uses in solving partial differential equations. Prerequisite: 3160.
- 4320. LINEAR ALGEBRA II.** (3-3-0). Innerproduct spaces, determinants, eigenvalues, eigenvectors, diagonalizability, applications. Prerequisite: 3090.
- 4450. NUMERICAL ANALYSIS I.** (3-3-0). Error analysis; approximation of functions; solutions of simultaneous equations; numerical differentiation and integration; difference equations; numerical solutions of differential equations. Prerequisite: consent of department head.
- 4500. GENERAL TOPOLOGY.** (3-3-0). Development of the fundamental concepts of general topology including topological spaces, continuity of functions, product spaces, connectedness, compactness. Prerequisite: 4170.

For Graduates Only

- 5020. SPECIAL TOPICS IN MATHEMATICS FOR ELEMENTARY SCHOOL TEACHERS.** (3-3-0).
Subtitles:
01-elementary mathematics
02-history
03-problem solving
04-algebra
05-geometry
06-selected reading
May not be used to fulfill requirements for M.S. degree in Mathematics Education. Prerequisite: consent of department head.
- 5080. ADVANCED TOPICS IN ELEMENTARY SCHOOL MATHEMATICS.** (3-3-0). Content will vary to meet specific needs of in-service elementary school teachers. Prerequisites: 5020 and consent of instructor.
- 5150. FOUNDATIONS OF MATHEMATICS I.** (3-3-0). Axiom systems; consistency, independence, and completeness; countability of sets, cardinals of sets. Prerequisites: 3100 and consent of department head.
- 5210. THEORY OF FUNCTIONS OF A REAL VARIABLE I.** (3-3-0). Real number system; theory of point sets; spaces; sequences; functions; infinite series; measure theory; integration. Prerequisite: 4170.

5530. SELECTED TOPICS IN MATHEMATICS. (3-3-0).

Subtitles:

01-foundations

02-functions and relations

03-algebra

04-selected readings

05-special topics

Prerequisite: 2110.

5410. INTRODUCTION TO OPERATIONS RESEARCH MODELS. (3-3-0). Models, model building, and optimization techniques used in operations research. Prerequisite: consent of department head.

5450. NUMERICAL ANALYSIS II. (3-3-0). Numerical solutions of differential equations, curve fitting, finite differences, iteration techniques. Prerequisite: 4450.

5500. INTRODUCTION TO MODERN ANALYSIS I. (3-3-0). Axiomatic development of basic concepts of sets, sequences, continuity, differentiation, integration, and certain algebraic systems. Prerequisite: consent of department head.

5520. FOUNDATIONS OF GEOMETRY II. (3-3-0). The axiomatic method; Euclidean geometry; geometry of 4 dimensions; plane hyperbolic geometry; proof. Prerequisite: 3020 or consent of department head.

5560. INTRODUCTION TO MODERN ANALYSIS II. (3-3-0). Continuation of 5500. Prerequisite: 5500 or consent of department head.

5570. TOPICS IN PROBABILITY AND STATISTICS. (3-3-0). Concepts in probability and statistics from an advanced viewpoint. Prerequisite: 12 hours of undergraduate mathematics.

5900. SEMINAR. (1-0-0). Two hours allowed toward a degree.

5950. RESEARCH PROBLEMS. (0 to 6-0-0). Six hours allowed toward a degree.

5980. THESIS. (6-0-0).

MEDICAL TECHNOLOGY (MEDT)

For Undergraduates Only

2010. HEMATOLOGY. (2-2-0). Blood collection, blood cell counting, hemoglobin determinations, and red blood cell indices; hematopoiesis, anemias, leukemias, hemoglobinopathies, and thalassemias; blood coagulation and platelets. Prerequisite: Biology 1020-1021; registration in or credit for 2011.

2011. HEMATOLOGY LABORATORY. (2-0-4). Prerequisite: registration in or credit for 2010.

4040. CLINICAL URINALYSIS. (2-0-0). Renal morphology, physiology, diseases and diagnostic procedures; chemical and microscopic examination of urine.

4050. CLINICAL CHEMISTRY. (8-0-0). Theory and application of chemical analysis of body fluids in normal and disease states; procedures of manual methods, autoanalyzers, chromatography, electrophoresis, toxicology, radioimmunoassay, blood gas analysis, instrument calibration and maintenance, test evaluation and quality control.

4060. CLINICAL IMMUNOLOGY AND SEROLOGY. (2-0-0). Principles of immunology and serology and their application to medical laboratory diagnosis; detecting specific antibodies associated with disease, quality control techniques and interpretation of findings.

4070. CLINICAL MICROBIOLOGY. (7-0-0). Isolation, identification, characteristics, diseases caused, disease mechanisms and methods of control of bacteria, mycobacteria, fungi and animal parasites; manual and automated techniques for isolation and identification of microorganisms.

4080. CLINICAL IMMUNOHEMATOLOGY. (4-0-0). Theory and practice of blood banking. Typing and crossmatching blood, donor processing, screening and identification of atypical antibodies, recognition of abnormal tests, quality control procedures, administration and technical operation; typing and crossmatching, donor blood selection, detection of abnormal antibodies, blood processing, plasmapheresis, and other blood component fractionation procedures.

4090. LABORATORY MANAGEMENT. (1-0-0). Theory and practice of management of laboratory personnel, education, certification, data, quality control, supplies and interaction with patients, hospital personnel and physicians.

4100. CLINICAL HEMATOLOGY AND COAGULATION. (6-0-0). Normal and diseased blood characteristics, hematopoiesis, anemias, hemoglobinopathies, leukemias, mechanisms of blood coagulation, manual and automated methods of hematology and quality control; performing tests such as complete blood cell counts, red blood cell indices, sedimentation rates, hematocrits, coagulation rates and factor analysis of manual and automated methods.

MERCHANDISING (MRCH)

- 2210. **RETAIL MERCHANDISING.** (3-3-0). Organization and management of retail establishments; store location; buying; receiving; stockkeeping; sales systems; store policies.
- 2220. **FASHION MARKETING.** (3-3-0). Merchandising aspects of fashion; purchasing, display, and economic considerations.
- 3200. **VISUAL MERCHANDISING.** (3-3-0). Theory and practice in promotion of products through visual merchandising including retail display techniques, fashion show production, special events, and other promotional activities in retailing. Prerequisite: Art 1010.
- 4220. **FASHION MERCHANDISING STUDY TOUR.** (3-3-0). The fashion industry and apparel market with tours of designers' workrooms, buying offices, and related apparel/textiles organizations. Expenses incurred to be paid by participant. Prerequisite: nine hours in Fashion Merchandising area or consent of instructor.

MICROBIOLOGY (MBIO)

For Undergraduates Only

- 1100. **MICROBIOLOGY IN HEALTH AND DISEASE.** (3-3-0). General microbiology; microorganisms in the human environment.
- 2060. **INTRODUCTORY MICROBIOLOGY.** (2-2-0). Bacteria, viruses and other single-celled microorganisms; structure, growth, relationships to man, animals, and plants. Prerequisites: registration in or credit for 2061.
- 2061. **INTRODUCTORY MICROBIOLOGY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 2060.
- 4900. **UNDERGRADUATE SEMINAR.** (1-1-0). Maximum credit towards degree, two hours. Oral reports of current literature in microbiology.
- 4950. **PROBLEMS IN MICROBIOLOGY.** (1 to 4-0-0). Individual research on microbiological problems not ordinarily included within the scope of regular courses; weekly conferences with the instructor, in addition to the research; procedures, results and conclusions in the form of a research paper. May be repeated for a maximum of four hours of credit toward degree. Prerequisites: 2080-2081; consent of instructor.

For Undergraduates and Graduates

- 4030. **MICROBIAL PHYSIOLOGY I.** (3-3-0). Energy yielding metabolism of the bacteria and the biosynthesis of small molecules, e.g., amino acids, purines and pyrimidines, and fatty acids. Prerequisites: 2080-2081; two semesters of organic chemistry.
- 4041. **MICROBIAL PHYSIOLOGY LABORATORY.** (2-0-4). Laboratory of the biochemistry and physiology of bacteria and higher protists. Prerequisites: 2080-2081, and Chemistry 4040 or Microbiology 4030.
- 4120. **PATHOGENIC MICROBIOLOGY.** (2-2-0). Microorganisms that cause disease in man and animals; their isolation and identification; mechanisms of disease causation; methods of control. Prerequisites: registration in or credit for 4120; 2080-2081.
- 4121. **PATHOGENIC MICROBIOLOGY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 4120.
- 4190. **IMMUNOLOGY AND SEROLOGY.** (3-3-0). Biology and chemistry of natural and acquired immunity; serological techniques. Prerequisites: registration in or credit for 4191; 2080-2081; one semester of organic chemistry.
- 4191. **IMMUNOLOGY AND SEROLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 4190.
- 4200. **IMMUNOLOGY AND SEROLOGY II.** (3-3-0). Continuation of 4190. Prerequisites: registration in or credit for 4201; 4190-4191.
- 4201. **IMMUNOLOGY AND SEROLOGY LABORATORY II.** (2-0-4). Prerequisite: registration in or credit for 4200.
- 4210. **APPLIED MICROBIOLOGY.** (2-2-0). Microbiological aspects of milk, food, industry, soils, water and domestic wastes. Prerequisites: registration in or credit for 4211; 2060-2061 or 2080-2081.
- 4211. **APPLIED MICROBIOLOGY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 4210.
- 4270. **VIROLOGY.** (3-3-0). Bacterial, plant and animal viruses. Prerequisites: registration in or credit for 4271; four hours of microbiology; four hours of organic chemistry. (Formerly Microbiology 5290.)

- 4271. VIROLOGY LABORATORY.** (2-0-4). Techniques in the isolation, purification, and fractionation of viruses; identification of antiviral agents using in vitro systems. Prerequisite: registration in or credit for 4270.
- 4700. PUBLIC HEALTH MICROBIOLOGY.** (3-3-0). Epidemiology and control of infectious diseases; role of hospital personnel in diagnosis, spread, and control of infection in the hospital and community. Prerequisite: consent of instructor.

MILITARY SCIENCE (MSCI)

For Undergraduates Only

- 1010. INTRODUCTION TO OFFICERSHIP I.** (1-1-0). Introduction to the Reserve Officer Training Corps (ROTC) and the customs, tradition, organization and role of the U.S. Army; basic map reading and land navigation skills, basic first aid, military writing skills.
- 1011. INTRODUCTION TO OFFICERSHIP LABORATORY.** (2-0-5). Hands on instruction in rappelling, mountaineering techniques, and equipment care. With approval of the Professor of Military Science, the following courses may be used to satisfy Military Science 1011 and 1021 requirements: physical education activities courses, Physical Education 1110 or Equine Science 1700, 1701.
- 1020. INTRODUCTION TO OFFICERSHIP II.** (1-1-0). Introduction to radio communications; reinforcement of map reading and land navigation skills; introduction to small unit tactics and operations; introduction to the Constitution, leadership and officer ethics.
- 1021. OFFICERSHIP II LABORATORY.** (2-0-5). Hands on instruction in advanced rappelling, mountaineering techniques, and equipment care. With permission of the Professor of Military Science the following courses may be used to satisfy Military Science 1011 and 1021 requirements: physical education activities courses, Physical Education 1110 or Equine Science 1700, 1701.
- 1040. RIFLERY.** (2-2-0). Marksmanship techniques; hands-on training with .22 rifle and pistol with emphasis on firearm safety.
- 2010. OFFICER LEADERSHIP AND MANAGEMENT ROLES.** (1-1-0). Advanced map reading and land navigation using compass; first aid; exercises in written and oral communications; introduction to squad tactics.
- 2011. OFFICER LEADERSHIP AND MANAGEMENT ROLES LABORATORY.** (2-0-5). Physical fitness training and practical application of military skills learned in the classroom.
- 2020. BASIC LEADERSHIP.** (1-0-1). Principles of leadership and advanced military skills.
- 2021. BASIC LEADERSHIP LABORATORY.** (2-0-5). Physical fitness training and practical exercises of leadership and military skills learned in the classroom.
- 2080. PRACTICUM (BASIC CAMP).** (2 to 8-0-8). Six-week camp at an active Army installation under the direction and supervision of the active Army personnel. Basic military subjects and leadership experiences. Practical work in both garrison and in the field. Qualifies a student with no prior military science courses for entry into the Advanced ROTC Program. Prerequisite: Consent of PMS.
- 3010. ADVANCED MILITARY SCIENCE I.** (2-2-0). Advanced map reading and land navigation; oral and written communications; radio communications; operations orders, squad tactics and operations and leadership. Prerequisite: completion of 1010, 1020, 2010, 2020 or completion of Basic Camp or consent of the PMS..
- 3011. ADVANCED MILITARY SCIENCE I LABORATORY.** (2-0-5). Advanced physical fitness training and evaluated practical leadership exercises using skills and techniques learned in classroom. Includes participation in at least three field training exercises and a social activity.
- 3020. ADVANCED MILITARY SCIENCE II.** (2-2-0). Advanced study in preparations for small unit operations, offensive and defensive; practical exercises in written and oral communications and seminars on preparation for Advanced Summer Camp. Prerequisite: 3010, 3011 or consent of PMS.
- 3021. ADVANCED MILITARY SCIENCE II LABORATORY.** (2-0-5). Advanced physical fitness training and evaluated practical leadership exercises using skills and techniques learned in the classroom. Includes participation in at least five field training exercises and a social activity.
- 3030. PRACTICUM (SUMMER ADVANCED CAMP).** (6-0-6). Six-week advanced ROTC Camp at an active Army installation under direction and supervision of active Army personnel. Leadership experiences in garrison and in field designed to evaluate leadership potential under stressful conditions using formal Leadership Assessment Programs (LAP). Prerequisite: completion of 3010, 3011, 3020, 3021 and/or consent of PMS.

- 4010. ADVANCED MILITARY SCIENCE III. (2-2-0).** Staff organization and functions, techniques of command and leadership; oral and written communications; problem solving techniques; LAP exercises. Prerequisite: consent of PMS.
- 4011. ADVANCED MILITARY SCIENCE III LABORATORY. (2-0-5).** Advanced physical fitness training and practical exercises in leadership and Army staff relationship including thinking, analyzing, planning, deciding and communicating. Plan and conduct at least three field training exercises, and a social event under faculty supervision.
- 4020. ADVANCED MILITARY SCIENCE IV. (2-2-0).** Professional development subject areas designed to prepare students for commissioning into the Regular Army, Reserve or National Guard. Ethics and leadership, unit administration, standards of conduct, military justice, war and morality, transition to the officer corps. Prerequisite: consent of PMS.
- 4021. ADVANCED MILITARY SCIENCE IV LABORATORY. (2-0-5).** Advanced physical fitness training, practical exercises in leadership, command and staff operation, plan and conduct at least five field training exercises and a social event under faculty supervision.
- 4050. READING AND CONFERENCE IN ADVANCED MILITARY SCIENCE. (1-0-0).** Independent reading and study of the art of military leadership and ethics. Conferences with assigned professor(s). prerequisites: 4010, 4020 and consent of PMS.
- 4060. PRACTICUM IN MILITARY STAFF PLANNING AND EXECUTION. (1-0-2).** Practical exercises in military staff planning and execution of selected ROTC activities exercises and/or leadership laboratories. Prerequisite: 4010, 4020 and consent of PMS.
- 4070. READINGS AND REPORTS. (1-0-0).** Readings and book reports on issues and/or military subjects of contemporary significance for military leaders. Prerequisites: 4010, 4020 and consent of PMS.
- 4080. PRACTICUM IN METHODS OF INSTRUCTION. (1-0-2).** Actual experience in preparing and presenting military science instruction on selected topics under instructor supervision. Prerequisite: 4010, 4020 and consent of PMS.

MUSIC (MUS)

For Undergraduates Only

For Non-Music Majors

- 1010. CLASS PIANO FOR NON-MUSIC MAJORS. (3-3-0).** Basic note reading; chords for harmonizing melodies and demonstrating techniques and methods in classroom music; for elementary education majors. Open to any student.
- 1020. CLASS PIANO FOR NON-MUSIC MAJORS II. (3-3-0).** Continuation of 1010. Development of reading ability at the keyboard, simple improvisation, and harmonization. Music literature suitable for the elementary classroom teacher or beginning pianist. Open to any student.
- 1040. CLASS GUITAR FOR NON-MUSIC MAJORS. (3-3-0).** Basic guitar skills and music reading; use of chords for harmonizing melodies and demonstrating techniques and methods for use in classroom music; for elementary education majors. Open to any student. Prerequisite or corequisite: 2100 or consent of instructor.
- 1700. MINOR STUDY. (1 or 2-0-1/2 or 1).** Private lessons for non-music majors. See the performance instruction section for individual instrument or voice letter designation to be added to the 1700 course section number.

Performance Ensembles

For music majors, minors and students not majoring in music. Music ensemble courses may be repeated for credit. Prerequisite: consent of instructor.

The following are extra-curricular courses:

- 1300. PEP BAND. (1 or credit-3-0).**
- 1310. BAND. (1 or credit-6-0).**
- 1320. CHORALE. (1 or credit-2-0).**
- 1330. CHAMBER CHOIR. (1 or credit-3-0).**
- 1340. ORCHESTRA. (1 or credit-4-0).**
- 1350. STRING ENSEMBLE. (1 or credit-2-0).**
- 1360. JAZZ ENSEMBLE. (1 or credit-3-0).**
- 1370. OPERA THEATER. (1 or credit-4-0).**
- 1380. WOMEN'S CHORUS. (1 or credit-3-0).**
- 1390. BRASS ENSEMBLE. (1 or credit-2-0).**
- 1400. PERCUSSION ENSEMBLE. (1 or credit-2-0).**

- 1410. WOODWIND ENSEMBLE. (1 or credit-2-0).
- 1420. VOCAL ENSEMBLE. (1 or credit-4-0).
- 1430. UNIVERSITY CHOIR. (1 or credit-3-0).
- 1440. ACCOMPANYING. (1 or credit-3-0).

For Undergraduates Only

Music Majors and Minors

- 1000. INTRODUCTION TO MUSIC THEORY. (3-3-0). For beginning music students who need additional training and review prior to entering Music 1050. The Great Staff; notes and note-values; key signatures; intervals, simple and compound meter; elementary sight singing, ear training and dictation; simple keyboard exercises; rudimentary musical terms; basic elements of form.
- 1050. ELEMENTARY HARMONY I. (3-5-0). Aural and written skills will be developed in the areas of: scales and key signatures, rhythm and meter, cadences, part writing, harmonizing melodies, and triads. A strong emphasis will be placed on sight singing and ear training. Prerequisite: 1000 or consent of instructor.
- 1060. ELEMENTARY HARMONY II. (3-5-0). Aural and written skills will be developed in the areas of: harmonic progressions, non-harmonic tones, cadences, diatonic seventh chords, and secondary dominants. Prerequisite: 1050
- 1210. FRENCH DICTION. (1-1-0).
- 1220. GERMAN DICTION. (1-1-0).
- 1230. ITALIAN DICTION. (1-1-0).
- 1240. ENGLISH DICTION. (1-1-0).
- 1500. RECITALS AND CONCERTS. (1-1-0). Required attendance at recitals and concerts for all music majors. May be repeated.
- 2050. ADVANCED HARMONY I. (3-5-0). Aural and written skills will be developed in the following areas: secondary leading tone chords, modulation, form borrowed chords, and augmented sixth chords. Prerequisite: 1060.
- 2060. ADVANCED HARMONY II. (3-5-0). Aural and written skills will be developed in the following areas: tertian harmonies, non-traditional harmonies and chord progressions, twentieth century compositional techniques, including serialism. Prerequisite: 2050.
- 2070. INTRODUCTION TO MUSIC LITERATURE I. (2-3-0). Music from the pre-Christian eras through the Classical period, with an emphasis on listening skills in terms of style, period, genre. Prerequisite: 1000 or 1050.
- 2080. INTRODUCTION TO MUSIC LITERATURE II. (2-3-0). Continuation of 2070, representing music from the Romantic era to the present time. Prerequisite: 1050, 2070.
- 2100. KINDERGARTEN AND ELEMENTARY SCHOOL MUSIC. (3-3-0). Fundamental skills and materials of music for pre-school through upper elementary grades.
- 3020. COUNTERPOINT. (3-3-0). Writing of chorale preludes, inventions and fugues in two, three, and four voices, based on 18th-century practice; contemporary contrapuntal techniques including those based on modal writing, synthetic scales, polytonality, and serial techniques. Prerequisite: 2060.
- 3070. HISTORY OF MUSIC I. (3-3-0). Evolution of music history, with reference to periods, style, and form, in the context of the artistic, political, and social development of Western civilization. Periods represented include Greco-Roman through the Baroque. Prerequisite: 2070, 2080.
- 3080. HISTORY OF MUSIC II. (3-3-0). Continuation of 3070. Represents Western music from the Classical era through the 20th century. Prerequisite: 3070
- 3090. TECHNIQUES OF CONDUCTING. (2-2-0). Basic elements of conducting relating to various media of performance. Prerequisite: 2060 and 2080.
- 3100. CHORAL CONDUCTING. (2-2-0). Techniques of conducting choral groups. Score analysis, interpretation and problems of presentation, rehearsal and performance. Prerequisite: 3090.
- 3110. INSTRUMENTAL CONDUCTING. (2-2-0). Techniques of conducting instrumental groups. Score analysis, interpretation and problems of preparation, rehearsal and performance. Prerequisite: 3090.
- 4010. FORM AND ANALYSIS. (3-3-0). Skill will be developed in the recognition of basic, intermediate, and large scale formal structures. Sections of compositions, along with entire works, will be analyzed to gain the ability to recognize and understand phrase and period construction, as well as binary, ternary, and other forms. Prerequisite: 2060, 2070, 2080.

- 4050. INSTRUMENTATION.** (3-3-0). Instruments in band and orchestra; scoring for band and orchestra; arranging music for band and orchestra, including assignments dealing with needs and limitations of public-school organizations. Prerequisite: 2060.
- 4300. PIANO ENSEMBLE LITERATURE.** (1-1-0). Music written for piano, two pianos and piano four hands. Prerequisite: consent of instructor.
- 4390. PERFORMANCE LITERATURE.** (3-3-0).
 Subtitles:
 01-instrumental
 02-piano
 03-vocal
 Materials and repertoire of the major performance areas. Prerequisite: consent of instructor.

¹ On the basis of a placement test, entering students will be sectioned and required to complete two or three courses in freshman music theory. Six hours of freshman music theory are required of all majors, and the required courses must be taken in sequence. For students who take nine hours of freshman music theory, three hours will be added to the number required for graduation. There will be no change in the amount of theory required beyond the freshman year.

Instrumental-Vocal Techniques and Materials

- 1650. KEYBOARD SKILLS.** (1-2-0). Prerequisite: consent of instructor.
PIANO CLASSES. Group instruction in piano for music majors only. Prerequisite: consent of instructor.
- 1800. PIANO CLASS.** (1-2-0).
1810. PIANO CLASS. (1-2-0).
1820. PIANO CLASS. (1-2-0).
1830. PIANO CLASS. (1-2-0).
INSTRUMENT CLASSES. Performance and teaching techniques, study of performance and teaching literature, information and materials on the selection, use, and maintenance of instruments and accessory equipment.
- 1840. WOODWIND CLASS I.** (2-3-0).
1850. WOODWIND CLASS II. (2-3-0).
1860. BRASS CLASS I. (2-3-0).
1870. BRASS CLASS II. (2-3-0).
1880. STRING CLASS. (2-3-0).
1890. PERCUSSION CLASS. (2-3-0).
1900. GUITAR CLASS. (2-3-0).
1910. VOICE CLASS. (2-2-0). Group instruction in voice. Open to non-music majors. May be repeated for credit. Prerequisite: consent of instructor.

Performance Instruction

Private Lessons.¹ The individual curriculum for each degree program prescribes the level and number of hours credit for major and minor study. Add to the section number of the course 1700, 1710, or 3710 the letter representing the performance area from the following:

- A-piano
- B-organ
- C-voice
- D-flute
- E-oboe
- F-clarinet
- G-bassoon
- H-saxophone
- I-French horn
- J-trumpet
- K-trombone
- L-euphonium
- M-tuba
- N-percussion
- P-violin
- Q-violoncello
- R-cello
- S-double bass

T-harp
U-harpsichord
V-guitar.

Private lesson course numbers may be repeated as needed to complete degree requirements.

- 1700. MINOR STUDY.** (1 or 2-0-1/2 or 1). Lower-level private lessons in minor areas, and for the non-music major. Prerequisite: consent of instructor.
- 1710. MAJOR STUDY.** (1 to 3-0-1/2 or 1). Lower-level private lessons in major areas for the music major. Prerequisite: consent of instructor.
- 3710. MAJOR STUDY.** (2 or 3-0-1). Upper-level private lessons in major areas for the music major. Prerequisite: junior standing in applied music and consent of applied faculty. Music majors are required to complete four semesters of upper-level applied music in the major area of concentration.
- 4720. RECITAL.** (2-0-0). Preparation and performance in the major performance area of the public recital required in the program leading to the Bachelor of Music degree. Prerequisite: senior standing in performance and consent of the performance faculty.

¹ One hour a day of practicing for each hour of credit is required; the amount of literature to be learned and memorized will vary in proportion to the amount of credit earned.

For Undergraduates and Graduates

- 4060. TWENTIETH-CENTURY MUSIC.** (3-3-0). Music of major composers and schools of composition from Debussy to present. Literature and analytical techniques. Writing in contemporary idioms. Prerequisite: 2060 and 3080.
- 4070. COMPOSITION I.** (3-3-0). Writing of songs and short choral and instrumental pieces. Prerequisite: 2060.
- 4080. COMPOSITION II.** (3-3-0). Continuation of 4070.
- 4150. PEDAGOGY.** (3-3-0).
Subtitles:
01-instrumental
02-piano
03-vocal
Materials and methods for teaching individuals and groups. May be repeated for up to six hours credit. Prerequisite: consent of instructor.
- 4220. MARCHING BAND TECHNIQUES.** (3-3-0).
- 4230. BAND DIRECTORS WORKSHOPS.** (3-3-0). May be repeated for up to six hours credit.
Subtitles:
01-advanced marching band techniques
02-rehearsal techniques
03-instrument clinic
04-instrument repair
05-materials and literature
- 4250. INSTRUMENT MAINTENANCE AND REPAIR.** (3-3-0). For instrumental music education majors. Emergency and basic instrument repair, including soldering, repadding, dentwork, and adjustments. Care and preventive maintenance of brass, woodwind, and percussion instruments. Prerequisite: junior standing.
- 4400. SOUND RECORDING.** (3-3-1). Theory and practice of audio recording, microphone selection and placement, mixing, equalization, compression, re-dubbing, mixing down. Prerequisite: consent of instructor.
- 4460. BAND LITERATURE FOR SCHOOLS.** (3-3-0). Prerequisite: consent of instructor.
- 4480. ORCHESTRAL LITERATURE FOR SCHOOLS.** (3-3-0). Prerequisite: consent of instructor.
- 4520. CHORAL LITERATURE FOR SCHOOLS.** (3-3-0). Prerequisite: consent of instructor.

For Graduates Only

- 5000. SEMINAR IN MUSIC EDUCATION.** (3-3-0). Philosophies and concepts in music education as criteria for curriculum development, supervision of instruction and administration of personnel. Examination of current research in music education in teaching methods, psychology, and tests and measurements.

- 5010. PRACTICAL REVIEW OF HARMONY/MUSICAL ANALYSIS/MUSIC HISTORY AND LITERATURE.** (3-3-0). Review course material covered in: 1050, 1060, 2050, 2060, (harmony) and/or 2050, 2060, 4010 (analysis) and/or 2070, 2080, 3070, 3080 (literature). Not for degree credit.
- 5020. ADVANCED FORM AND ANALYSIS.** (3-3-0). Individual projects in analysis and class discussion of representative works on large forms from all periods. Prerequisite: 4010 or equivalent.
- 5040. INSTRUMENTAL ARRANGING.** (3-3-0). Practical band arranging; orchestration for average school situations with full instrumentations.
- 5060. CHORAL ARRANGING.** (3-3-0). Secular and sacred choral literature form and harmonic structure; extension of individual creative ability by arranging of assigned melodies for different voicing; good choral sounds and effects; voice problems and techniques.
- 5070. CHAMBER MUSIC.** (1-2-0). Performance of important works composed for small combinations of instruments and/or voices. May be repeated for credit. Credit may not apply toward any degree.
- 5200. ADMINISTRATION AND SUPERVISION OF INSTRUMENTAL GROUPS.** (3-3-0). Organization and administration of public school bands and orchestras; rehearsal methods and techniques; library systems; program planning and building, and substitutions of instruments; plans and techniques of class instrument instruction; selecting, buying, and caring for school instruments; marching-band problems.
- 5230. ADVANCED CONDUCTING.** (3-3-0). Examination of scores with reference to rehearsal and interpretive problems. Experience with instrumental and choral ensembles, both separately and in combination. Repertoire appropriate to concert performance.
- 5270. ADMINISTRATION AND SUPERVISION OF VOCAL MUSIC GROUPS.** (3-3-0). Choral ensemble; organization; rehearsal and vocal techniques. Improvement of instruction; public relations; problems in scheduling, budget, and finance.
- 5280. ENSEMBLE PERFORMANCE.** (1-0-0). Problems of public performance from viewpoint of the conductor-director. Practical experience with performing ensembles. May be repeated for credit. Credit may not apply toward any degree.
- 5300. MEDIEVAL AND RENAISSANCE MUSIC.** (3-3-0). History of Western music to about 1600; representative compositions.
- 5310. MUSIC IN THE BAROQUE ERA.** (3-3-0). Development of homophonic and contrapuntal styles of the 17th and 18th centuries; beginning of opera, oratorio, chamber and orchestral music, and solo literature.
- 5320. MUSIC IN THE CLASSICAL PERIOD.** (3-3-0). Development of sonata form; emergence of modern orchestra and chamber music ensembles; representative works from literature of the period.
- 5330. MUSIC IN THE ROMANTIC PERIOD.** (3-3-0). Western music of the 19th century, including further development of sonata form, the symphony, opera, solo song, free forms, and program music.
- 5340. STUDIES IN THE HISTORY OF VOCAL MUSIC.** (3-3-0). Vocal idioms of all stylistic periods. Larger vocal forms of mass, cantata, oratorio, and opera.
- 5350. STUDIES IN THE HISTORY OF INSTRUMENTAL MUSIC.** (3-3-0). Instrumental forms of all stylistic periods. Larger instrumental forms of orchestral and wind ensembles.
- 5390. PERFORMANCE LITERATURE.** (3-3-0).
 Subtitles:
 01-instrumental
 02-piano
 03-vocal
 Materials and repertoire of the major performance areas. May be repeated for up to six hours.
- 5400. SPECIAL PROBLEMS.** (1 to 3-3-0). Techniques and literature. Scheduled by counsel and student's advisor.
- 5490. MUSICAL INSTRUMENTS FOR THE ELEMENTARY SCHOOL.** (3-3-0). Instruction in the Orff Instruments, ukulele and other instruments suitable for teaching in the elementary school. Music reading and use of chords for harmonizing approximately 150 songs. Prerequisites: 2100 or equivalent and consent of instructor.
- 5550. CLASSROOM MUSIC.** (3-3-0). Music in the elementary classroom; philosophies, aims, concepts of music education; choosing and organizing teaching materials; development of skills in teaching music.

- 5600. GENERAL MUSIC.** (3-3-0). Philosophies and methods of the general music class as propounded by leading authorities in the field; music literature arranged and compiled especially for the general music class.
- 5900. INTRODUCTION TO MUSIC RESEARCH.** (3-3-0). Research, bibliography, and source materials for each of the various areas of music. Prerequisite: graduate standing in music.
- 5970. PERFORMANCE DOCUMENT.** (2-0-0).
- 5980. THESIS.** (1 to 6-0-0).

Performance Instruction

Private Lessons.¹ The individual curriculum for each degree program prescribes the level and number of hours credit for major and minor study. Add to the section number of the course 5700, or 5710, the letter representing the performance area selected from the following:

- A-piano
- B-organ
- C-voice
- D-flute
- E-oboe
- F-clarinet
- G-bassoon
- H-saxophone
- I-French horn
- J-trumpet
- K-trombone
- L-euphonium
- M-tuba
- N-percussion
- P-violin
- Q-violola
- R-cello
- S-double bass
- T-harp
- U-harpsichord
- V-guitar

Private lesson course numbers may be repeated as needed to complete degree requirements.

- 5700. MINOR STUDY.** (1 or 2-0-21 or 1). Private lessons in minor areas, and for the non-music major. Prerequisite: consent of instructor.
- 5710. MAJOR STUDY.** (1 to 4-0-21 to 1). Private lessons in major areas for the music major. Prerequisite: consent of instructor.
- 5720. GRADUATE RECITAL.** (2-0-0). Preparation and performance of a public recital. Required of performance majors, elective in other curricula. Prerequisite: consent of performance faculty based on pre-recital jury.

¹ One hour a day of practice for each hour of credit is required; the amount of literature to be learned and memorized will vary in proportion to the amount of credit earned.

NURSING (NURA, NURB, NURG)

For Undergraduates Only

- 1050. HISTORY, ISSUES, AND TRENDS IN NURSING.** (3-3-0). A non-clinical course designed to introduce students to nursing; discusses historical and current issues in nursing and their effect on nursing practice. Topics included provide the basis for understanding the practice of nursing.
- 1060. TECHNICAL NURSING TRANSITION.** (3-2-3). This course provides a framework for assisting transition from an LPN (LVN) to an associate degree nurse. Credit not allowed for more than one course from 1060 and 1050. Prerequisite: meeting Associate Degree Nursing Program admission criteria.
- 1100. INTRODUCTION TO NURSING.** (4-4-0). Provides the foundation upon which all subsequent nursing courses are developed. The nurse's role in meeting man's basic needs, including an introduction to the nursing process and the concepts of comfort, rest, and sleep. Corequisite: registration in or credit for 1110, Zoology 1220.

- 1110. INTRODUCTION TO NURSING SKILLS.** (3-0-9). Provides the foundation upon which subsequent technical skills are developed. Acquisition of competency in nursing skills in a supervised laboratory setting. Limited clinical laboratory practice will be arranged in selected health care agencies. Corequisite: registration in or credit for 1100, Zoology 1220.
- 1500. NURSING CONCEPTS I.** (4-4-0). The nursing process in assisting clients to meet the basic needs of elimination, mobility, and nutrition. Corequisite: 1100, 1110, registration in or credit for 1510, Zoology 1230.
- 1510. APPLICATION OF THE NURSING PROCESS I.** (3-0-9). Application of the nursing process in the care of selected clients with threats to elimination, mobility, and nutrition needs. Clinical laboratory practice in health care agencies will be arranged. Prerequisite: 1100, 1110, registration in or credit for 1500, Zoology 1230.
- 2100. NURSING CONCEPTS II.** (5-5-0). The nursing process in assisting clients to meet the basic needs of safety and sexuality. Prerequisite: all courses outlined in the curriculum pattern through the second semester of study. Corequisite: registration in or credit for 2050, 2110.
- 2110. APPLICATION OF THE NURSING PROCESS II.** (5-0-16). Application of the nursing process in the formulation and organization of care of selected clients with threats to the basic needs of safety and sexuality. Clinical laboratory practice in health care agencies will be arranged. Prerequisite: all courses outlined in the curriculum pattern through the second semester of study, registration in or credit for 2050, 2100.
- 2500. NURSING CONCEPTS III.** (5-5-0). The nursing process in assisting clients to meet the basic needs of oxygenation and circulation. Prerequisite: 2050, 2100, 2110. Registration in or credit for 2510, 2550.
- 2510. APPLICATION OF THE NURSING PROCESS III.** (5-0-15). Application of the nursing process in the formulation, organization, and evaluation of care for selected groups of clients with threats to oxygenation/circulation and other threats to basic needs. Principles of client management will be included. Prerequisite: 2050, 2100, 2110. Registration in or credit for 2500, 2550.
- 2550. HUMANISTIC NURSING CARE.** (3-3-0). Designed to sensitize students to the psychosocial and cultural implications of humanistic nursing care and to provide a study in communication skills.
- 2990. SPECIAL TOPICS IN NURSING.** (3-3-0). Nursing concepts and approaches covering selective topics within the scope of associate degree nursing practice. May be repeated for a maximum of six hours.
- 3010. APPROACHES TO INTERPERSONAL RELATIONSHIPS.** (3-3-0). Alternatives in interpersonal relationships within the nursing care delivery system. Affective domain and experimental learning and group experiences in constructively resolving conflicts to provide quality patient care. Prerequisite: admission to associate or baccalaureate degree program.
- 3020. INDEPENDENT STUDY IN NURSING.** (1-1-0). Specialized studies relevant to the baccalaureate nursing curriculum to meet specific learning needs of students. May be repeated up to three hours of credit. Grading pass/fail. May not be utilized to meet degree requirements. Prerequisite: admission to the baccalaureate nursing program and consent of department head.
- 3070. INTRODUCTION TO PROFESSIONAL NURSING.** (3-3-0). Historical events and current issues related to contemporary nursing including an introduction to the health care delivery system; research and theories in nursing. Prerequisite: successful completion of freshman year of curriculum pattern or consent of the dean.
- 3080. BASIC NURSING ACTIVITIES TO SUPPORT HIGH-LEVEL FUNCTIONING.** (4-3-8). (Lecture-Practicum). Basic concepts and techniques essential to the administration of safe and effective nursing care. Prerequisite: successful completion of courses listed in first three semesters of curriculum pattern or consent of the dean. Corequisite: 3070, 3480, 3490.
- 3100. TRANSITION TO PROFESSIONAL NURSING.** (3-3-0). A non-clinical course. This course provides the framework for assisting the transition from technical nurse to professional nurse. Credit not allowed for more than one course from 3100 and 3070. Prerequisite: completion of the first two semesters of general education courses in the Bachelor of Science in Nursing curriculum.
- 3170. ALTERATIONS IN HUMAN ADAPTATION I.** (4-4-0). Life cycle alterations in psychological functioning and common biophysical and psychological alterations related to childbearing and normal perinatal development. Prerequisite: 3070, 3080, 3480, 3490. Corequisite: 3180.
- 3180. NURSING PROCESS I.** (5-2.5-16). (Lecture-Practicum). The nursing process supporting biophysical, psychological and sociocultural adaptive mechanisms of individuals and families during the perinatal period and during altered psychological functioning. Prerequisite: 3070, 3080, 3480, 3490. Corequisite: 3170.

- 3270. LEADERSHIP FUNCTIONS AND PRACTICES FOR PROFESSIONAL NURSES.** (3-3-0). Theory of leadership principles as applied to the delivery of nursing care. Prerequisite: 3170, 3180. Corequisite: 3370, 3380 or consent of the dean.
- 3370. ALTERATIONS IN HUMAN ADAPTATION II.** (4-4-0). Common biophysical and psychological alterations in immune system, nutrition, metabolic/integrative functioning, elimination, and mobility at various developmental stages in the life cycle of children and adults. Prerequisite: 3170 and 3180. Corequisite: 3270 and 3380.
- 3380. NURSING PROCESS II.** (5-2.5-16). (Lecture-Practicum). The nursing process supporting biophysical and sociocultural adaptive mechanisms of individuals, families and groups at various ages with alterations of physiological coping/the immune process, nutrition, metabolic/ integrative functioning, elimination and mobility. Prerequisites: 3170, 3180. Corequisites: 3270, 3370.
- 3480. APPLICATION OF THE NURSING PROCESS TO HUMAN ADAPTATION.** (5-4-3). (Lecture-Practicum). Application of the nursing process; assessment of biophysical, psychological and sociocultural adaptation. Prerequisite: successful completion of courses listed in first three semesters of curriculum pattern or consent of division director. Corequisites: 3070, 3080, 3490 or consent of the dean.
- 3490. PRINCIPLES OF MEDICATION ADMINISTRATION.** (3-3-0). Foundation in drug related information. The nurse's role in drug administration; methods of dosage calculation; physiological responses; classifications of drugs and legal considerations. Prerequisite: successful completion of courses listed in first three semesters of curriculum pattern and diagnostic reading test and mathematics test or consent of the dean. Corequisites: 3070, 3080, 3480.
- 4170. ALTERATIONS IN HUMAN ADAPTATION III.** (4-4-0). Biophysical and psychological alterations resulting in low level functioning, focusing on complex life cycle alterations of oxygenation, mobility, the integument, perinatal development and cellular growth. Prerequisites: 3370, 3380. Corequisite: 4180 or consent of the dean.
- 4180. NURSING PROCESS III.** (5-2.5-16). (Lecture-Practicum). The nursing process supporting biophysical, psychological and sociocultural adaptive mechanisms of individuals, families, groups and communities with complex alterations of and problems related to oxygenation, mobility, the integument, perinatal development and cellular growth. Prerequisites: 3370, 3380. Corequisite: 4170.
- 4370. PROFESSIONAL TRANSITION SEMINAR.** (3-3-0). Present expanding roles of the generalist nurse practitioner. Prerequisites: 4170, 4180. Corequisite: 4380 or consent of the dean.
- 4380. PROFESSIONAL TRANSITION PRACTICUM.** (6-0-24). Role development of the generalist nurse practitioner. Prerequisites: 4170, 4180. Corequisite: 4370.
- 4390. NURSING ELECTIVE.** (3 to 6-3-0). (Lecture-Practicum). Supervised self-directed study to increase knowledge and skills in planning, implementing and evaluating nursing care. Prerequisites: 3070, 3080, 3490.
- 4950. SPECIAL TOPICS IN NURSING.** (3-3-0). Supervised self-directed study to increase theoretical knowledge in planning, implementing and evaluating nursing care. Prerequisites: two semesters of clinical nursing courses. May be repeated for credit when topic varies.
Subtitles:
80-Nursing Process Review Seminar
81-Nursing Process Review Seminar
82-Transcultural Nursing
83-Gerontological Nursing

For Graduates Only

- 5010. RESEARCH IN NURSING.** (3-3-0). Scientific investigation; classifications of research; analysis and interpretation. Developing a research design to investigate a nursing problem. Prerequisite: basic statistics course (may be taken concurrently) and graduate standing.
- 5040. ADULT NURSING I.** (3-2-6). Guided experience in application of the nursing process with adult clients in selected settings. Systematic inquiry and hypothesis testing. Nursing intervention at primary, secondary, and tertiary levels. Prerequisites: registration in or credit for 5120, 5280.
- 5050. ADULT NURSING II.** (3-2-6). Application, synthesis, and evaluation of knowledge, theories, and principles that create new, dynamic relationships for improving client care. Intervention priorities, innovative approaches, evaluation of outcomes. Prerequisite: 5040.
- 5060. PRACTICUM IN TEACHING.** (3-0-18). Seminar in theory, critical thinking and analysis with guided experiences in the use of teaching strategies. Prerequisites: 5090 and six hours in a clinical sequence of courses. With consent of advisor, 5090 and second clinical course may be taken concurrently.

- 5070. EVALUATION OF NURSING EDUCATION.** (3-3-0). Methods of evaluation, with emphasis on test preparation and clinical performance appraisal. Prerequisite: registration in or credit for Psychology 4400.
- 5080. INDEPENDENT STUDY.** (3-3-0). Selected nursing practice problems. Problem and mode of study agreed upon by student and instructor. Prerequisite: by advisement.
- 5090. CURRICULUM DEVELOPMENT IN NURSING EDUCATION.** (3-3-0). Theories and procedures. Philosophy, program objectives and conceptual framework development. Prerequisite: graduate standing.
- 5100. SOCIAL FORCES AND NURSING PRACTICE.** (3-3-0). Social forces affecting the health care system; exploration and evaluation of concerns germane to contemporary nursing and the role of the masters prepared nurse. Prerequisite: graduate standing.
- 5110. NURSING ADMINISTRATION I.** (3-3-0). Nursing administration concepts, principles and theories which relate to communication, decision making, power, change and leadership. Prerequisite: admission to Graduate School.
- 5120. THEORY ORIENTED NURSING PRACTICE.** (3-3-0). Nursing theory development as basis for nursing practice. Systematic description, prediction and control of clinical phenomena in the generation of testable hypotheses about nursing. Prerequisite: graduate standing.
- 5130. TOPICS IN NURSING.** (3-3-0). Specialized studies in nursing to meet specific learning needs of students. Prerequisite: graduate standing. May be repeated once for credit.
- 5140. LEADERSHIP ROLE DEVELOPMENT.** (3-0-18). Practicum in role development for decision making, accountability, planning, change, and evaluation. Prerequisites: 5110, six hours in the clinical sequence.
- 5150. CRITICAL CARE NURSING OF ADULTS.** (3-2-6). Advanced concepts in nursing assessment and intervention in the presence of pathology and trauma. Prerequisites or corequisites: 5120, 5280.
- 5160. CRITICAL CARE NURSING OF THE ADULT II.** (3-2-6). Advanced concepts in nursing assessment and intervention in the presence of pathology and trauma. Prerequisites: 5150.
- 5170. PRACTICUM IN CLINICAL NURSING.** (3-0-18). Application, synthesis and evaluation of knowledge and activities in the varied roles of the clinical nurse specialist. Prerequisite: 5190.
- 5190. TOPICS IN ADVANCED CLINICAL NURSE SPECIALIZATION.** (3-0-18). A guided clinical experience in selected settings for Adult, Critical Care, Maternal Child and Mental Health-Psychiatric Clinical Nurse Specialist students. Prerequisite: 6 hours in a clinical sequence of courses.
- 5200. ADVANCED NURSING ASSESSMENT AND DIAGNOSIS.** (3-3-0). Strengthens nursing assessment and diagnostic skills through advanced study of altered regulatory mechanisms and trauma in adults. Prerequisite: 5280 or consent of instructor.
- 5210. NURSING ADMINISTRATION II.** (3-3-0). Study of advanced nursing administration concepts including financial management, legal issues, risk management, quality assurance and personnel management. Prerequisite: graduate standing.
- 5230. STRATEGIES FOR TEACHING REPRODUCTION AND HEALTH.** (3-3-0). Application of effective teaching strategies for reproduction and health; content such as puberty, pregnancy, sexually transmitted diseases, birth control and fetal development.
- 5240. DIFFERENTIAL NURSING DIAGNOSIS AND MANAGEMENT OF THE ADULT CLIENT.** (3-2-8). Class and clinical experiences in the identification, application, analysis, synthesis, and evaluation of knowledge and activities which structure the dimensions of the role of the Primary Health Care Nurse Specialist as an expert practitioner of adult nursing. Prerequisite: credit for or registration in 5280 or its equivalent or consent of instructor.
- 5250. ADVANCED PERINATAL NURSING ASSESSMENT AND DIAGNOSIS.** (3-3-0). Advanced concepts in maternal, fetal, postpartal and neonatal physiology as related to nursing assessment and diagnosis. Strengthens ability to separate normal from high risk systems reaction during the reproductive and neonatal period. Prerequisite: 5280, or consent of instructor.
- 5260. CLINICAL SKILLS I FOR THE NURSE PRACTITIONER IN CLINICAL PRACTICE.** (1-0-3). Practical applications and strategies for learning beginning skills of diagnostic testing and performing technical skills relative to advanced practice. Prerequisite: 5700, 5280; corequisite: 5770 or 5850 or 5330.
- 5270. CLINICAL SKILLS II FOR THE NURSE PRACTITIONER IN CLINICAL PRACTICE.** (1-0-3). Practical applications and strategies for the learning advanced skills of diagnostic testing and performing technical skills relative to advanced practice. Prerequisites: 5260, 5780; corequisites: 5790, 5840.

Subtitles:

80-Clinical Skills II for Family Nurse Practitioners

81-Clinical Skills II for Pediatric Nurse Practitioners

82-Clinical Skills II for Women's Health Nurse Practitioners

- 5280. ADVANCED HUMAN PHYSIOLOGY AND PATHOLOGY FOR ADVANCED PRACTICE NURSES.** (3-3-0). The analysis, evaluation, synthesizing and integration of advanced human physiology and pathology concepts for the advanced practice nurse.
- 5310. MATERNAL-CHILD AND FAMILY NURSING I.** (3-2-6). Client care problems in maternal-child health care settings. Formulation and testing of hypotheses of nursing intervention. Conceptual framework derived from the Neuman health care systems. Prerequisite: registration in or credit for 5120, 5280.
- 5320. MATERNAL-CHILD NURSING II.** (3-2-6). Formulation and testing of hypotheses of nursing intervention. Synthesis and evaluation of advanced nursing knowledge and clinical competence in the practice of maternal-child nursing. Prerequisite: 5310.
- 5330. WOMEN'S HEALTH NURSE PRACTITIONER I.** (3-2-6). The theoretical and clinical basis for management of health care needs of essentially well women through the life cycle, including low risk pregnant women. Prerequisite: 5120, 5280, 5700, 5820; corequisite: 5010, 5260, 5710, 5830.
- 5340. WOMEN'S HEALTH NURSE PRACTITIONER II.** (3-2-6). The theoretical and clinical basis for management of health care needs of women experiencing obstetric and gynecologic deviations from wellness through the life cycle. Prerequisite: 5330.
- 5350. WOMEN'S HEALTH NURSE PRACTITIONER III.** (3-2-6). The theoretical and clinical basis for management of health care needs of women experiencing common acute and chronic non-reproductive health problems/illnesses throughout the life cycle, including certain vulnerable populations. Prerequisite: 5340; corequisites: 5270, 5840.
- 5360. WOMEN'S HEALTH NURSE PRACTITIONER IV.** (3-0-18). Clinical preceptorship in selected clinical sites in rural and urban areas with opportunities to refine the role of the Women's Health Nurse Practitioner and refine competencies in clinical judgment and management of the health care of women throughout the life cycle with special focus in underserved areas. Prerequisites: 5270, 5350, 5840.
- 5400. THEORETICAL FOUNDATIONS OF ROLE DEVELOPMENT IN CLINICAL NURSE SPECIALIZATION.** (3-3-0). Theories of role development and change for the clinical nurse specialist as consultant, leader, researcher, practitioner and teacher. Prerequisite: graduate standing.
- 5500. MENTAL HEALTH/PSYCHIATRIC NURSING I.** (3-2-6). Critical care problems in community mental health/psychiatric settings. Expands and strengthens concepts in the nursing process through systematic inquiry and testing of nursing intervention hypotheses at the primary, secondary, and tertiary levels of prevention. Prerequisite: credit for or registration in 5120, Psychology 5470.
- 5510. MENTAL HEALTH/PSYCHIATRIC NURSING II.** (3-2-6). Application, synthesis, and evaluation of nursing knowledge and skills required for innovative approaches to client care in Community Mental Health Psychiatric nursing. Priorities of nursing intervention at the levels of prevention. Prerequisite: 5500, Psychology 5750 (Psychology 5750 may be taken concurrently).
- 5600. COMMUNITY HEALTH NURSING I.** (3-2-6). Application of the nursing process with individuals, families and communities as clients in selected settings. Concepts and operations of the nursing process through systematic inquiry and hypothesis testing. Nursing intervention at the primary, secondary, and tertiary levels of intervention. Prerequisites: registration in or credit for 5120, 5280.
- 5610. COMMUNITY HEALTH NURSING II.** (3-2-6). Application, synthesis and analysis of nursing knowledge and skills required for innovative approaches to care of the community as the client. Priorities of nursing intervention at the three levels of prevention. Prerequisite: 5600.
- 5700. METHODS OF CLINICAL NURSING ASSESSMENT.** (3-2-6). Advanced health assessment of infants, children, adults, prenatal and elderly with emphasis on data collection, and establishing priorities for health maintenance and prevention. Prerequisite: graduate standing, 5280.
- 5710. PHARMACOTHERAPEUTICS.** (3-3-0). Study of clinical pharmacological therapeutics for advanced nursing practice. Prerequisite: graduate standing.
- 5750. ROLE OF FAMILY NURSE PRACTITIONER.** (3-3-0). Practical applications and strategies for marketing self as a Nurse Practitioner, developing professional, entrepreneurial, political and legal acuity. Studying health care policy to determine current and future directions of self as a nurse practitioner provider. Prerequisite: 5780.
- 5770. FAMILY NURSE PRACTITIONER I.** (3-2-6). Management of expectant parents and common acute, chronic and rehabilitative primary health problems of neonates through adolescence. Prerequisites: 5700, 5280.

- 5780. FAMILY NURSE PRACTITIONER II.** (3-2-6). Management of health and common acute, chronic and rehabilitative primary health problems of young adults to senescence. Prerequisites: 5770 and 5710.
- 5790. FAMILY NURSE PRACTITIONER III.** (3-2-6). Management of common acute, chronic, and rehabilitative primary health problems of the elderly. Prerequisite: 5780, 5750 or concurrently.
- 5800. FAMILY NURSE PRACTITIONER IV.** (3-0-18). Clinical preceptorship in selected clinical sites with opportunities to refine the role of the family nurse practitioner and develop competency in clinical judgment. Prerequisites: 5750, 5790. Students are required to be continuously enrolled in 5800 until all clinical hours are completed and approved.
- 5810. FAMILY DYNAMICS FOR ADVANCE NURSING PRACTICE.** (3-3-0). Examination of theories of family and the dynamics influencing family life, role behavior, coping, change and challenge. Emphasis is on strategies to assess and promote primary family health to formulate a nursing practice framework. Prerequisite: graduate standing.
- 5820. INTRODUCTION TO THE ROLE OF THE NURSE PRACTITIONER.** (2-2-0). The social, professional, and legal forces which structure and affect the implementation of the role of the nurse practitioner.
- 5830. ROLE OF THE NURSE PRACTITIONER IN CLINICAL PRACTICE.** (1-1-0). Analysis of the professional role of the nurse practitioner in clinical practice; focus is on the theoretical practice framework, therapeutic nurse-client relationship, clinical decision making process, management processes, methods of communicating client status, case management, practice protocols and guidelines and management concepts related to the client's wellness/illness state. Prerequisite: 5820; corequisite: 5330 or 5770 or 5850.
- 5840. ROLE OF THE NURSE PRACTITIONER IN BUSINESS PRACTICE.** (1-1-0). Practical applications and strategies for marketing self as an advanced practitioner of nursing, developing professional, entrepreneurial, political and legal acuity. Analyze health care policy to determine current and future directions of self as a nurse practitioner provider. Prerequisite 5830; corequisite: 5350 or 5790 or 5870
- 5850. PEDIATRIC NURSE PRACTITIONER I.** (3-2-6). Management of well child care, developmental problems, communicable diseases, and common acute and chronic illnesses and emergencies of the respiratory, gastrointestinal, and urinary systems in children from birth through school age. Prerequisite: 5120, 5280, 5700, 5820; corequisite: 5010, 5260, 5710, 5830.
- 5860. PEDIATRIC NURSE PRACTITIONER II.** (3-2-6). Management of common acute and chronic illnesses and emergencies of the eye, cardiovascular, hematological, immune, endocrine, musculoskeletal, and neurological systems in children birth through school age. Prerequisite: 5010, 5260, 5710, 5850, 5830; corequisite: 5810.
- 5870. PEDIATRIC NURSE PRACTITIONER III.** (3-2-6). Management of well adolescent care, psychosocial problems and common acute and chronic illnesses and emergencies in adolescents and vulnerable populations. Prerequisite: 5810, 5860; corequisite: 5270, 5840.
- 5880. PEDIATRIC NURSE PRACTITIONER IV.** (3-0-18). Clinical preceptorship in selected clinical sites in rural and urban areas with opportunities to refine the role of the Pediatric Nurse Practitioner and refine competencies in clinical judgment and management of the health care of children of all ages in underserved areas. Prerequisite: 5270, 5840, 5870.
- 5900. SEMINAR IN NURSING RESEARCH.** (1-1-0). May not be used to satisfy degree requirements.
- 5950. RESEARCH PROBLEMS.** (1 to 3-3-0). No more than three hours may be applied to the degree. Students are required to be continuously enrolled in 5950 until all clinical hours are completed and approved.
- 5980. THESIS.** (1 to 6-3-0). Students are required to be continuously enrolled in 5950 or 5980 until project or thesis is completed and approved.

NUTRITION (NUTR)

For Undergraduates Only

- 1020. NUTRITION AND HUMAN NEEDS.** (2-2-0). Principles of nutrition applied to meeting personal nutrition needs, preventing diet-related problems, and making sound food choices.
- 1030. HUMAN NUTRITION.** (3-3-0). Principles of nutrition with application to health, physical and mental fitness and longevity.
- 1050. CHILD NUTRITION.** (2-2-0). Nutritional needs and food habits from conception through childhood; helping children understand and apply nutrition concepts through food preparation.

OFFICE ADMINISTRATION (OFAD)

For Undergraduates Only

- 0910. BEGINNING KEYBOARDING.** (1-3-0). An introduction to computer keyboarding. An intensive five week, hands-on, session covering the correct techniques and keystrokes.
- 1010. BASIC TYPEWRITTEN COMMUNICATIONS AND KEYBOARDING.** (3-3-0). Touch typewriting through correct techniques; centering material; simple letter styles; position, rhythm, and accuracy. This course can be used by all majors, including Office Administration and Business Education majors, but not by any other business majors.
- 1020. INTERMEDIATE TYPEWRITTEN COMMUNICATIONS AND KEYBOARDING.** (3-3-0). Fundamentals of typewriting and mastery of keyboard; speed and accuracy in production of letters, manuscripts, outlines, tables.
- 1080. TOUCH SHORTHAND I.** (3-3-0). Specialized machine shorthand utilizing stenograph's individualized program. Prerequisite: 1010.
- 1090. TOUCH SHORTHAND II.** (3-3-0). Advanced stenograph machine shorthand transcription; office or court procedures. Prerequisite: 1010.
- 2010. BASIC STENOGRAPHY.** (3-3-2). Theory and practice of a modern shorthand system; reading and writing from printed shorthand.
- 2020. INTERMEDIATE STENOGRAPHY.** (3-3-2). Continuation of 2010; development of skill in reading and writing from printed shorthand; dictation of simple material. Prerequisites: 1010, 2010.
- 2030. ADVANCED TYPEWRITTEN COMMUNICATIONS.** (3-3-0). Acquisition of speed and accuracy in letter writing; special reports and forms. Prerequisite: 1020.
- 2040. INTERNSHIP – ADMINISTRATIVE OFFICE.** (3-1-4). Supervised general office work to be scheduled with 2140. Prerequisite: sophomore standing.
- 2140. APPLIED OFFICE PROCEDURES.** (3-3-2). An office practice course to integrate the keyboarding, computer application, and clerical skills through the use of actual business procedures; lecture and laboratory practice designed to develop good business judgment and initiative. Prerequisites: 1020, 2200, Computer Information Systems 1800; or consent of instructor.
- 2170. ADMINISTRATIVE OFFICE MANAGEMENT.** (3-3-0). Office function of the business enterprise; office location and layout, equipment and supplies, organization, supervision of personnel, employee training, office services, and control of output. Prerequisite: consent of instructor.
- 2180. INTRODUCTION TO WORD/INFORMATION PROCESSING.** (3-3-0). Basic concepts with hands-on experience; word processing techniques on electronic typewriters and microcomputers. Prerequisite: 1010 and 1020 or equivalent.
- 2190. WORD/INFORMATION PROCESSING II.** (3-3-0). Advanced word/information concepts with hands-on experience and techniques on the microcomputer. Prerequisites: 2180, Computer Information Systems 1800.
- 2200. BUSINESS REPORTS AND COMMUNICATION.** (3-3-0). Communication problems, business letters, employment application procedures. Problem areas investigated by research procedures; sources of data, compilation and arrangement of data, documentation, bibliography, and effective presentation. Prerequisite: Computer Information Systems 1020 or equivalent, English 1010, 1020.
- 4050. C.P.S. REVIEW.** (3-3-0). Review for secretarial administration majors preparing to take the Certified Professional Secretary examination. Prerequisites: permission of advisor and NSU sponsor of the National Collegiate Association for Secretaries.
- 4200. RECORDS AND INFORMATIONAL COMMUNICATIONS CONTROL.** (3-3-0). Handling incoming and outgoing informational data. Records procedures; internal installation, administration, and control. Prerequisite: knowledge of keyboarding or consent of instructor.

ORIENTATION (OR)

For Undergraduates Only

- 1010. ORIENTATION.** (1-0-0). New students' adjustment to University life – academic, social, and vocational. Student regulations and requirements; basic study skills; development of a sound philosophy of life.
- 1030. EDUCATIONAL AND VOCATIONAL GUIDANCE.** (1-0-0). Assessment of individual abilities and interests; opportunities and requirements of major occupations. Required of all students enrolled in General Curriculum. Adds one semester hour to requirements for a degree.

PHILOSOPHY (PHIL)

For Undergraduates Only

- 1010. **INTRODUCTION TO PHILOSOPHY.** (3-3-0). Basic problems, arguments, and concepts of selected Western philosophers dealing with reality, knowledge, and moral values.
- 1020. **WORLD RELIGIONS.** (3-3-0). Doctrines, philosophies, and rituals of Hinduism, Buddhism, Taoism, Confucianism, Shinto, Judaism, Christianity, and Islam.
- 2020. **ETHICS.** (3-3-0). Comparison and contrast of leading ethical theories and their relation to practical morality.
- 2030. **LOGIC.** (3-3-0). Standards of reasoning, inductive and deductive, which allow well-ordered schemes of knowledge in the various sciences.

For Undergraduates and Graduates

- 4030. **AESTHETICS.** (3-3-0). Philosophy of aesthetic experience; relation between integrity in self and in art; exploration of boundaries of art and science. Prerequisite: three hours of philosophy or consent of instructor.
- 4060. **BASIC PROBLEMS IN PHILOSOPHY.** (3-3-0). Directed study and research on special topics in philosophy; selected philosophers and areas of specialization in philosophy. Prerequisite: six semester hours of philosophy.

PHOTOGRAPHY (PHOT)

For Undergraduates Only

- 1050. **BASIC BLACK AND WHITE PHOTOGRAPHY I.** (4-3-4). Theory and skills in making the photographic image. Small cameras, lenses, filters; lighting techniques, darkroom procedure. Photographic composition; film developing; print processing. Prerequisite: to be taken concurrently with 1051.
- 1051. **BASIC BLACK AND WHITE PHOTOGRAPHY LABORATORY I.** (0-0-3). Practical use of darkroom equipment and techniques for the production of black and white photographs. Prerequisite: to be taken concurrently with 1050.
- 2150. **BASIC BLACK AND WHITE PHOTOGRAPHY II.** (4-3-4). Print and negative quality. Composition and elements of a good picture. Prerequisite: 1050 or permission of the instructor. To be taken concurrently with 2151.
- 2151. **BASIC BLACK AND WHITE PHOTOGRAPHY LABORATORY II.** (0-0-3). Experience in black and white darkroom techniques for the fulfillment of course requirements. to be taken concurrently with 2150.
- 3140. **INTERMEDIATE PHOTOGRAPHY.** (4-3-4). High technical quality and proper use of small and large format cameras. Camera corrections, basic studio lighting, densitometry, quality film processing. Exposure, film processing and black and white printing to increase techniques and skill. Use of various formats as applied to professional photographers. Prerequisites: 1050, 2150.
- 3141. **INTERMEDIATE PHOTOGRAPHY LABORATORY.** (0-0-3) Experience in black and white darkroom techniques for the fulfillment of course requirements. To be taken concurrently with 3140.
- 3150. **ADVERTISING AND COMMERCIAL PHOTOGRAPHY.** (4-3-4). High technical quality and mechanics and techniques of commercial and advertising photography. Students learn to photograph a variety of commercial subjects using the large format camera. Prerequisites: 1050, 2150, 3140.
- 3200. **PORTRAIT PHOTOGRAPHY.** (4-3-4). Fundamentals of portrait lighting, posing, retouching and camera technique. Psychology and technology needed to create a professional portrait; business aspects of the portrait photographer. Prerequisites: 1050, 2150, 3140.
- 4090. **PHOTOJOURNALISM.** (4-3-4). Newspaper and magazine photography. Principles and methods of photography in newspapers and feature events, papers and journalism stories in depth. Students will produce picture stories and essays for publication. Prerequisites: 1050, 2150, Journalism 2510, 2520.
- 4250. **COLOR SLIDE PHOTOGRAPHY.** (3-1-5). History of color; cameras and lenses; composition; color films; slide techniques. Students experiment with a variety of films; process and mount slides. Regular slide presentations and critiques. Prerequisites: 1050, 2150.

For Undergraduates and Graduates

- 4550. SPECIAL PROBLEMS IN PHOTOGRAPHY.** (3-1-0). Student selects an area of photography to be investigated in depth. Many include new technical applications and equipment, creative theme development in black and white, color, film-making, or a combination of any of these. Student must present a paper or creative project at the end of the course. Prerequisite: 1050 or consent of instructor.

PHYSICAL EDUCATION (PE)**Activity Courses**

Limit repeats of Physical Education activity classes to one when the student has passed it the first time.

- 1120. BEGINNERS SWIMMING.** (2-0-3).
1130. BOWLING. (2-0-3).
1180. GOLF. (2-0-3).
1290. RACQUETBALL. (2-0-3).
1330. SKIN AND SCUBA DIVING. (2-0-3).
1370. TENNIS. (2-0-3).
1510. VOLLEYBALL. (2-0-3).
1550. WEIGHT TRAINING. (2-0-3).
1580. FITNESS FOR LIFE. (2-0-3).
1590. ADVANCED SCUBA DIVING. (2-0-3).
1600. INTERMEDIATE SWIMMING. (2-0-3).
1660. BEGINNING AEROBIC EXERCISE. (2-0-3).
1670. INTERMEDIATE AEROBIC EXERCISE. (2-0-3).

For Undergraduates Only

- 1110. PERSONAL FITNESS – LIFETIME SPORTS.** (2-2-1). Evaluation and development of cardiovascular fitness. Methods of developing cardiovascular skills activities.
- 2000. INTRODUCTION TO FITNESS MANAGEMENT.** (3-3-0). Theories and practices related to the management of exercise programs in community and corporate settings.
- 2010. FOUNDATIONS OF PHYSICAL EDUCATION.** (3-3-0). Overview of Physical Education as a profession; foundations and principles of psychomotor, cognitive and affective components of physical activity; role of physical education in leading healthy lifestyle.
- 2070. WATER SAFETY INSTRUCTOR.** (2-1-2). Knowledge, skills, and techniques of teaching aquatic skills and safety; American Red Cross system of aquatic instruction; Red Cross WSI certification to qualified students. Prerequisite: successful completion of swimming proficiency test administered at first class meeting. Credit not allowed for both 2070 and 2170.
- 2080. LIFEGUARDING.** (2-1-2). Knowledge, skills, rescue techniques, conditioning, preventive lifeguarding. Red Cross certification as non-surf lifeguard to qualified students. Prerequisite: 2070 or current Red Cross certificate in Water Safety Instruction.
- 2110. BASIC MOVEMENT AND RHYTHMICAL ACTIVITIES.** (2-1-2). Skills involving locomotor and non-locomotor movement; perceptual-motor awareness; hand-eye and foot-eye coordination; use of implements in physical activities; use of rhythmical activities in teaching elementary school physical education. For Physical Education majors only.
- 2170. TECHNIQUES OF AQUATICS.** (2-1-2). Knowledge, skills, and techniques of teaching aquatic skills and safety. Credit not allowed for both 2070 and 2170. For Physical Education majors only.
- 2200. FLAG FOOTBALL, SOCCER, AND TRACK AND FIELD.** (2-1-2). Knowledge, skills, rules, and teaching methodology. For Physical Education majors only.
- 2210. BASKETBALL, VOLLEYBALL, AND SOFTBALL.** (2-1-2). Knowledge, skills, rules, and teaching methodology. For Physical Education majors only.
- 2230. BOWLING, ARCHERY, AND RECREATIONAL GAMES.** (2-1-2). Knowledge, skills, rules, and teaching methodology. For Physical Education majors only.
- 2240. BADMINTON, GOLF, AND TENNIS.** (2-1-2). Knowledge, skills, rules, and teaching methodology. For Physical Education majors only.
- 2270. PHYSICAL CONDITIONING.** (2-1-2). Knowledge, skills, personal conditioning and teaching methodology. For Physical Education majors only.
- 2630. MOTOR LEARNING AND DEVELOPMENT.** (3-3-0). Factors affecting the acquisition of motor skills and performances; motor development. Prerequisite: Zoology 1220, 1221.

- 3010. TRACK COACHING METHODS.** (2-1-2). Form used in various track and field events; placement of participants in events; organizing and conducting meets; other coaching problems. Prerequisite: junior, senior classification.
- 3020. BASEBALL COACHING METHODS.** (2-1-2). Coaching problems: team strategy, managerial problems, psychology of coaching, and methods of teaching skills and techniques. Prerequisite: junior, senior classification.
- 3050. SOFTBALL AND VOLLEYBALL COACHING METHODS.** (2-1-2). Coaching problems: team strategy, managerial problems, psychology of coaching, methods of teaching skills and techniques. Prerequisite: junior, senior classification.
- 3170. CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION.** (2-1-2). Curriculum development for elementary and middle school levels. Identification of basic knowledge relevant to physical education programs by emphasizing common core concepts in the field. Prerequisite: registration in or credit for Education 3140.
- 3190. TEACHING APPRENTICESHIP IN HEALTH AND PHYSICAL EDUCATION.** (1-0-2). For student assistants in skills techniques or first aid classes; planning, equipment and facility set-up, teaching and evaluating performance; under supervision of university instructor. Prerequisite: consent of HPER Department Head.
Subtitles:
01-aquatics
02-individual sports
03-team sports
04-fitness/lifetime sports
05-first aid/CPR
- 3200. PRACTICUM IN COACHING.** (2-0-2). Supervised field based experience in area of coaching/sport studies interest. Open only to Health and Physical Education teaching majors and to students in teacher certification curricula. May be repeated one time
- 3250. STUDENT TEACHING/COACHING PRACTICUM.** (3-0-3). Supervised field based experience in area of coaching/sport studies interest while concurrently enrolled in student teaching. Open only to Health and Physical Education teaching majors and to students in teacher certification curricula.
- 3550. APPLIED KINESIOLOGY.** (3-3-0). Structural responses of the human body during movement; anatomical and mechanical principles underlying performance of sport skills. Prerequisite: Zoology 1220 and 1221.
- 3560. PHYSIOLOGY OF EXERCISE.** (3-3-0). Functional responses of the human body during movement; elementary physiological principles underlying exercise and training. Prerequisite: Zoology 1220, 1221 and junior, senior classification.
- 3561. PHYSIOLOGY OF EXERCISE LABORATORY.** (1-0-2). Laboratory to accompany 3560.
- 4060. BASKETBALL COACHING METHODS.** (2-1-2). Styles of individual and team offense and defense; methods for teaching these skills; analysis of problems of coaching basketball. Prerequisite: junior, senior classification.
- 4110. ORGANIZATION AND ADMINISTRATION OF HEALTH AND PHYSICAL EDUCATION.** (3-3-0). Administrative theory, aims and objectives, budgeting, public relations, legal liability, equipment and facilities, curriculum development, HPERA program overview, evaluation, etc. Prerequisite: junior standing.
- 4160. FOOTBALL COACHING METHODS.** (2-1-2). Styles of offense and defense; fundamental team play; running, kicking, and passing games; offensive and defensive strategy; coaching problems. Prerequisite: junior, senior classification.
- 4190. PHYSICAL FITNESS FOR ADULTS.** (3-2-2). Practical application of the theory of exercise science aimed at adult populations in order to provide the student with sufficient knowledge to develop and prescribe appropriate exercise programs, and to assess individual levels of fitness. Prerequisite: 3550, 3560 and junior, senior classification
- 4200. PRACTICUM IN FITNESS MANAGEMENT.** (9-0-20). Designed to give the student supervised practical experience in community and corporate fitness management programs to include daily participation in the conduct of individual exercise prescription, evaluation and overall program development.
- 4960. METHODS OF TEACHING ELEMENTARY/MIDDLE SCHOOL PHYSICAL EDUCATION.** (2-1-2). Knowledge and skills of teaching methodologies and materials; laboratory experiences of observing instruction and participation in teaching elementary/middle school students. Prerequisite: admission to candidacy for teacher education.

For Undergraduates and Graduates

- 4150. TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION.** (3-3-0). Tests and measurements for teachers; administration of tests and grading procedures.
- 4210. BEHAVIORAL AND EDUCATIONAL DISABILITIES AND PHYSICAL EDUCATION.** (3-3-0). Physical education for the mentally handicapped, emotionally disturbed, and learning disabled. Field experience required. Prerequisite: 4750 or Special Education 4460 or equivalent, or permission of instructor.
- 4220. CHRONIC DISABILITIES AND PHYSICAL EDUCATION.** (3-3-0). Physical education for the neurologically, orthopedically and sensory handicapped. Field experience required. Prerequisite: 4750 or equivalent and/or permission of instructor.
- 4240. PHYSICAL EDUCATION CURRICULUM FOR SPECIAL POPULATIONS.** (3-3-0). Curriculum development for all handicapped persons/individuals in physical education including needs assessments, evaluation, and implementation. Prerequisite: 4750, 4210, 4220, or equivalent.
- 4360. PSYCHOLOGY OF HUMAN MOVEMENT.** (3-3-0). Psychological factors that affect sport performance. Application of the characteristics of the coach, athlete and competitive saturation to personality, anxiety, achievement, motivation, aggression, and affiliation. Prerequisite: coaching experience or consent of instructor; Psychology 1010 or Educational Psychology 3000.
- 4500. FOUNDATIONS OF PHYSICAL EDUCATION.** (3-3-0). Facts pertaining to the physical, psychological, and social development of the individual; principles related to the role of physical education in present-day America; history of physical education. Prerequisite: senior standing.
- 4750. RECREATION AND PHYSICAL EDUCATION FOR HANDICAPPED.** (3-3-0). Exercise in rehabilitating prevalent disabilities in children and youth; medical liaison; fundamental concepts of adjustment and development of the handicapped person; recreation for the handicapped. Prerequisite: consent of the department head. (Same as Recreation 4750)

For Graduates Only

- 5020. READING AND RESEARCH IN HEALTH, PHYSICAL EDUCATION, AND RECREATION.** (3-3-0). Reports on research completed, research underway, and research needed.
- 5120. SPORTS MARKETING AND PROMOTION.** (3-3-0). Application of marketing principles, marketing management, and services marketing in a sports, health, and leisure activities context. Emphasis will be placed on the development skills as they relate to the management of sports and health related activities program.
- 5130. GOVERNING AGENCIES AND ETHICAL PRINCIPLES FOR COMPETITIVE ATHLETICS.** (3-3-0). An indepth study of various governing agencies related to the administration and control of athletic competition; course provides information relative to the ethical principles, codes of conduct and official issues confronting personnel concerned with athletic competition.
- 5140. FACILITY DESIGN, EQUIPMENT, AND FACILITY/EVENT MANAGEMENT.** (3-3-0). Planning and administration of sport facilities; including purchase, care and inventory of equipment. Course will examine fundamental concepts, theories, principles and procedures related to sport facility management, design and sports equipment.
- 5160. SPORT LAW.** (3-3-0). An indepth study and analysis of legal concepts, implications to practitioners and their application to the realm of sports.
- 5180. READINGS AND CURRENT LITERATURE IN PHYSICAL EDUCATION.** (3-3-0).
- 5190. HUMAN RESOURCE MANAGEMENT IN SPORTS.** (3-3-0). Application of management principles in a sports, health, and leisure activities context. Emphasis will be placed on the development of management skills and adapting them to the management of sports and health related activities and programs.
- 5220. BUDGETING AND PLANNING FOR SPORT AND LEISURE ENTERPRISES.** (3-3-0). Budgeting and planning aspects such as budget documents, budget preparation, analysis techniques, finance strategies, allocation of resources and other aspects specific to the successful operation of a sport and/or leisure enterprise.
- 5240. ELEMENTARY PHYSICAL EDUCATION.** (3-3-0). Derivation of methods and techniques from principles of learning; program development based on needs and interests of children and innovations.
- 5350. PROBLEMS IN PHYSICAL EDUCATION.** (3-0-0). Physiological, social and psychological implications; facilities and equipment; selection and distribution of activities.

- 5420. SUPERVISION OF HEALTH AND PHYSICAL EDUCATION.** (3-3-0). Modern methods; procedures in teaching; interpretation of evaluative procedures; teaching aids; recognition of child growth and development as an index for presenting materials and skill techniques.
- 5430. CURRICULUM CONSTRUCTION IN PHYSICAL EDUCATION.** (3-3-0). Constructing curricula based on needs and interests of children in the community correlating learning experiences with the total school curriculum; contributions of physical education to total education; planning progression in learning experiences.
- 5470. PHYSIOLOGY OF EXERCISE.** (3-3-0). Practical application of the physiological adjustments occurring during exercise with emphasis on current research in human performance. Prerequisite: teacher certification in P.E. or consent of instructor.
- 5630. MOTOR LEARNING.** (3-3-0). Psychology of learning as it pertains to motor skills; research in teaching and learning gross motor skills. Prerequisite: 5020 or Education 5010.
- 5650. PSYCHOSOCIAL ASPECTS OF HUMAN MOVEMENT.** (3-3-0). Human movement in a variety of settings throughout life. Interaction of the individual, group, and physical activity environment from psychological and sociological perspectives. Prerequisite: graduate standing and consent of the instructor.
- 5660. FITNESS AND TRAINING FOR HUMAN PERFORMANCE.** (3-3-0). Systematic training programs for practical application of strength, flexibility, and conditioning methods, also incorporates injury prevention and treatment techniques for physical educators. Prerequisite: teacher certification in P.E. or consent of instructor.
- 5690. RESEARCH PROJECT.** (3-0-0). A paper or project written as partial fulfillment of non-thesis masters program. Prerequisite: 12 hours of graduate degree courses including Education 5010.
- 5980. THESIS.** (3 to 6-0-0).
- 5990. FIELD STUDY.** (3-0-3). Internship in a school or a school/university system, professional sports organization, sports marketing firm, hospital wellness/fitness setting, wellness center, corporate wellness/fitness program, heart association, health spa, sport medicine clinic or a similar setting approved by the department head and major professor. Prerequisite: 24 hours of graduate degree courses including Education 5010.

¹ Students should not take this course and Education 5010.

PHYSICS (PHYS)

For Undergraduates Only

- 1010. PHYSICS ORIENTATION.** (1-1-0). Specific information concerning scholastic resources, study skills, academic requirements, academic and intellectual content, job opportunities, academic advising, scholarship, and employment opportunities.
- 1120. ASTRONOMY.** (3-3-0). Celestial mechanics; gravitation and Kepler's Law; solar system; stars. Prerequisite: six hours of science.
- 2030. GENERAL PHYSICS.** (3-3-0). Fundamental laws of mechanics, heat and sound. Prerequisites: registration in or credit for 2031; Mathematics 1090.
- 2031. GENERAL PHYSICS LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 2030.
- 2040. GENERAL PHYSICS.** (3-3-0). Fundamental laws of electricity, magnetism, and optics; introductory atomic and nuclear physics. Prerequisites: registration in or credit for 2041, 2030-2031.
- 2041. GENERAL PHYSICS LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 2040.
- 2200. PRACTICUM FOR PHYSICS TEACHING.** (1 to 3-0-0). Supervised experience in teaching the physics laboratory. Recommended elective for secondary education physics majors and minors and for physics majors contemplating a teaching career. One hour credit for each laboratory teaching experience. Prerequisite: consent of department head.
- 2510. GENERAL ANALYTICAL PHYSICS.** (4-4-0). Fundamental laws of mechanics, wave motion, heat and thermodynamics using differential and integral calculus. Prerequisites: registration in or credit for 2511; Mathematics 2100.
- 2511. GENERAL ANALYTICAL PHYSICS LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 2510.
- 2520. GENERAL ANALYTICAL PHYSICS.** (4-4-0). Continuation of 2510. Electricity, magnetism, optics, atomic and nuclear physics. Prerequisites: registration in or credit for 2521; 2510-2511.
- 2521. GENERAL ANALYTICAL PHYSICS LABORATORY.** (1-0-3). Prerequisite: registration or credit for 2520.

- 3010. ELECTRONICS.** (3-3-0). Basic electronics for scientists; DC and AC circuits; network theorems; basic electron tube circuits; basics of transistors; instrumentation. Prerequisite: 2520-2521; or 2040-2041.
- 3011. ELECTRONICS LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 3010.
- 3120. INTRODUCTION TO ASTROPHYSICS.** (3-3-0). Celestial mechanics, stellar structure, and galactic phenomena. Prerequisites: two semester of general physics, and Mathematics 2100.
- 3291. ADVANCED LABORATORY I.** (3-0-6). Mechanics, electrical measurements, heat, physical optics, atomic physics, nuclear physics. Prerequisites: 2520-2521; Mathematics 2110.
- 3301. ADVANCED LABORATORY II.** (3-0-6). Continuation of 3291, may be taken independently.
- 3400. MINICOMPUTER INTERFACING WITH SCIENTIFIC INSTRUMENTATION.** (3-3-0). Practical course dealing with the use of minicomputers in real-time data acquisition and control of scientific instruments. Prerequisite: a basic computer course or consent of instructor. (Same as Chemistry 3400.)
- 3710. THERMODYNAMICS.** (3-3-0). Laws of thermodynamics, kinetic theory of gases, transport properties, elements of statistical mechanics. Prerequisites: 2520-2521; Mathematics 2110.
- 3820. PHYSICAL OPTICS.** (3-3-0). Interference, diffraction, polarization, crystal optics. Prerequisites: 2520-2521; Mathematics 2110.
- 3900. SPECIAL TOPICS IN PHYSICS.** (1 to 3-1 to 3-0). In depth study of various upper-level elective topics in physics; in particular, those not included explicitly among the catalog listings. Prerequisites: two semesters of general physics, Mathematics 2100 or consent of instructor.
- 4900. UNDERGRADUATE SEMINAR.** (1-1-0). Student must present a seminar on a topic in physics approved by the instructor. No more than 2 hours may count toward the baccalaureate degree.
- 4920. INDIVIDUAL STUDY.** (2-0-6). Study in experimental or theoretical physics under supervision of a faculty member. Open to juniors and seniors; may be repeated any number of times; not more than four hours may be applied toward graduation. Prerequisites: consent of department head.
- 4950. RESEARCH PROBLEMS.** (1 to 4-0-4). Individual research on problems not ordinarily included within the scope of regularly scheduled courses. Prerequisite: consent of department head.
- 4980. SENIOR THESIS.** (2-0-6). Investigation of a problem in experimental or theoretical physics under supervision of a faculty member; results presented in formal report at scientific meeting or seminar. May be repeated any number of times. Prerequisites: consent of department head.

¹ No more than two hours may be applied toward a minor or major in physics.

For Undergraduates and Graduates

- 4100. MODERN PHYSICS.** (3-3-0). Topics in special theory of relativity, wave and particle description of matter, atomic, and nuclear physics. Prerequisites: two semesters of general physics; Mathematics 2100.
- 4190. THE ELECTROMAGNETIC SPECTRUM.** (3-3-0). Origin of Electromagnetic radiation, classical versus quantum treatment, survey of instrumental methods used in detection of radiation, survey of developments in visible, radio, gamma, infrared, and x-ray astronomy. Prerequisites: two semesters of general physics, and Mathematics 2100.
- 4200. SPECIAL TOPICS IN SPACE SCIENCE.** (3-3-0). In-depth study of one or more areas of current research such as solar physics, hydrology, and/or microgravity research. Prerequisites: two semesters of general physics. Mathematics 2100, and instructor's consent.
- 4510. MECHANICS.** (4-4-0). Dynamics of a particle in one, two, and three dimensions; damped oscillator with arbitrary forcing; two-body problem; many-body problem; rigid body dynamics; small oscillations. Prerequisites: 2520-2521; credit for or registration in Mathematics 3130.
- 4620. ELECTROMAGNETISM.** (4-4-0). Electrostatics in vacuo; energy in the electric field; magnetostatics; electric current; electric and magnetic fields in material media; Maxwell's equations; field of an oscillating dipole. Prerequisites: 2520-2521; credit for or registration in Mathematics 3160.
- 4710. METHODS OF THEORETICAL PHYSICS.** (3-3-0). Topics of current interest; mathematical techniques used. Prerequisite: consent of department head.
- 4720. METHODS OF THEORETICAL PHYSICS.** (3-3-0). Continuation of 4710; may be taken independently. Prerequisite: consent of department head.

- 4830. QUANTUM MECHANICS I.** (4-4-0). Wave functions; Schrödinger equation in one, two, and three dimensions; Hilbert space; angular momentum; atomic hydrogen; quantum philosophy. Prerequisite: 2520; credit for or registration in Mathematics 3160.
- 4840. QUANTUM MECHANICS II.** (4-4-0). Continuation of 4830. Approximation techniques; spin; fine structure; helium; quantum statistics; radiation; scattering. Prerequisite: 4830.

For Graduates Only

- 5000. GENERAL PHYSICS PRINCIPLES FOR TEACHERS.** (3-3-0). Principles of physics with emphasis on fundamental results and pedagogy. For teachers who need an overview of the basic ideas regarding forces, motion, conservation, and wave-particle duality.
- 5010. PHYSICS FOR SECONDARY TEACHERS.** (3-3-0). Principles of physics with application to secondary school physics. Current trends and literature in physics. Prerequisite: twelve hours of physics.
- 5020. EXPERIMENTAL PHYSICS FOR TEACHERS.** (3-1-3). Development of laboratory techniques useful for a modern secondary laboratory in an internship setting. Design and implementation of original pedagogical experiments. Survey of laboratory experiments and demonstrations.
- 5090. PHYSICAL SCIENCE FOR ELEMENTARY AND SECONDARY TEACHERS.** (3-3-0). Teaching basic principles of physical science at the elementary and secondary level employing the inquiry method.
- 5950. RESEARCH PROBLEMS IN PHYSICS.** (1 to 6-0-0). Introduction to research and physics literature; investigation of an elementary research problem; laboratory and conferences as required. Results presented both in formal written report and orally, either in a departmental seminar or at a professional meeting. Prerequisite: consent of department head.

¹ Credit may not be obtained in both Chemistry 5090 and Physics 5090.

PLANT AND SOIL SCIENCE (PSSC)

For Undergraduates Only

- 2100. SOIL SCIENCE.** (2-2-0). Fundamentals. Origin, composition, and classification of soils; their physical, chemical, and biological properties; significance of these properties to soil-plant relationships and soil management. Prerequisite: registration in or credit for 2101; registration in or credit for Chemistry 1040-1051 or 1070.
- 2101. SOIL SCIENCE LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 2100.
- 3300. FIELD CROP PRODUCTION.** (3-3-0). Crop characteristics and varieties, environmental factors, rotations, production practices associated with the major cash crops of Louisiana and the U.S. Prerequisite: 2100-2101; Agriculture 1050.
- 3350. FORAGE AND PASTURE CROPS.** (2-2-0). Production, management and identification of major forage crop plants; development and maintenance of pastures. Prerequisite: registration in or credit for 3351; 2100-2101; Agriculture 1050.
- 3351. FORAGE AND PASTURE CROP LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 3350.
- 3460. VEGETABLE PRODUCTION.** (3-3-0). Principles and practices involved in production, climatic requirements, nutritional requirements, management and quality characteristics of important vegetable crops. Prerequisite: Agriculture 1050; Biology 1020-1021 or Botany 2100-2101.
- 4950. SPECIAL PROBLEMS IN PLANT AND SOIL SCIENCE.** (1 to 4-1 to 4-0). Library, field or laboratory problems. Formal written report and/or departmental seminar presentation required. Students may enroll in different areas of concentration for a maximum of nine semester hours of credit to be applied toward a degree. Area of concentration is identified as follows:
- 01-forages
 - 02-breeding (genetics)
 - 03-field crops
 - 04-nutritional needs
 - 05-laboratory techniques
 - 06-management
 - 07-nursery/landscape
 - 08-ornamentals
- Prerequisite: senior standing or graduate student with nine hours agricultural science and consent of instructor.

For Undergraduates and Graduates

- 4160. WEED SCIENCE.** (3-3-0). Principles involved in cultural and chemical weed control; chemistry of herbicides and effects of the chemicals on the plant; identification of common weeds and their seeds. Prerequisite: registration in or credit for 4161; 2100[Shyph]2101; Agricultural 1050; seven semester hours of chemistry including organic chemistry.
- 4161. WEED SCIENCE LABORATORY.** (1-0-2). Important weed problems in Louisiana, herbicides to be used, equipment used for herbicidal application. Prerequisite: registration in or credit for 4160.
- 4270. PLANT PROPAGATION AND NURSERY-GREENHOUSE MANAGEMENT.** (2-2-0). Principles of plant propagation, including seeding, potting, balling, and planting of fruit and ornamental plants. Identification and culture of nursery and greenhouse plants. Prerequisite: registration in or credit for 4271; Agriculture 1050; Biology 1020-1021 or Botany 2100-2101.
- 4271. PLANT PROPAGATION AND NURSERY-GREENHOUSE MANAGEMENT LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 4270.

POLITICAL SCIENCE (PSCI)

For Undergraduates Only

- 2010. GOVERNMENT OF THE UNITED STATES.** (3-3-0). Federal government in the U.S.; government machinery and present tendencies toward modification; political parties and party governments. Prerequisite: sophomore standing.
- 2020. STATE AND URBAN GOVERNMENT.** (3-3-0). State and urban government in the 50 states; southern and Louisiana government and politics.
- 2910. SCOPE AND METHODS.** (3-3-0). Methods of political science; content and scope of the discipline. Prerequisite: 2010.

For Undergraduates and Graduates

- 3020. POLITICAL PARTIES.** (3-3-0). The party process and institutions; American developments. Prerequisite: 2010.
- 3030. THE JUDICIAL PROCESS.** (3-3-0). History, function, and organization of state and federal courts; judicial administration; lawyers and litigation in civil and criminal settings; implementation and impact of judicial decisions. Prerequisite: 2010 or consent of instructor.
- 3040. THE PRESIDENCY.** (3-3-0). A historical and political analysis of who and what shaped the American presidency.
- 3060. PUBLIC ADMINISTRATION.** (3-3-0). Principles and processes of administering public policies; problems of personnel, finance, organization, extent of bureaucratic responsibility. Prerequisite: 2010.
- 3090. CONSTITUTIONAL LAW.** (3-3-0). Major Supreme Court decisions interpreting the U.S. Constitution. Prerequisite: 2010.
- 4010. PARLIAMENTARY GOVERNMENT.** (3-3-0). Principal examples of parliamentary government. Prerequisite: 2010.
- 4060. INTERNATIONAL LAW.** (3-3-0). Theories and contemporary issues pertaining to International Law. Prerequisite: 2010.
- 4070. INTERNATIONAL ORGANIZATIONS.** (3-3-0). Theories, concepts, and contemporary issues pertaining to international organizations. Prerequisite: 2010.
- 4080. AMERICAN FOREIGN POLICY.** (3-3-0). Historical and institutional study of post-World War II American Foreign Policy; issues of post-Cold War era. Prerequisite: 2010.
- 4090. INTERNATIONAL RELATIONS.** (3-3-0). Major theories on international relations; post-World War II and current periods.
- 4150. POLITICAL THEORY.** (3-3-0). Principal developments in political theory from antiquity to the present. Prerequisites: junior standing and consent of instructor.
- 4160. SPECIAL PROBLEMS.** (3-3-0). Reading and research in American government and international relations. Prerequisites: major or minor in government and senior standing or consent of instructor.
- 4190. PROPAGANDA AND PUBLIC OPINION.** (3-3-0). Nature of and techniques used in propaganda and public opinion; role of social agencies in opinion formation; current publications and textbooks.

- 4200. PRACTICUM.** (3 to 6-0-10). Work experience in offices of public administration or legal firms. Prerequisites: junior standing and consent of instructor. Credit to be determined on the basis of 150 hours of contact time for three semester hours. Prerequisites: 3090 or 3060, and consent of instructor. Open only to Political Science majors.
- 4500. PRESERVATION LAW.** (3-3-0). Court decisions dealing with historic preservation. Prerequisites: political science major and/or consent of instructor.

PSYCHOLOGY (PSYC)

For Undergraduates Only

- 1010. GENERAL PSYCHOLOGY.** (3-3-0). Principles of psychology; human behavior; shaping of behavior and personality by interaction between individual and environment.
- 2020. COMPARATIVE PSYCHOLOGY.** (3-3-0). The comparative method and its application to behavior of organisms, including man. Research of innate behavior, early experience, learning, motivation, physiological processes.
- 2050. DEVELOPMENTAL PSYCHOLOGY.** (3-3-0). Physical, mental, social and emotional development of the individual; understanding human dynamics with respect to self and others.
- 2250. PSYCHOLOGY OF GENDER.** (3-3-0). Surveys the psychological and social impact of sex differences, sex roles, and development of gender identity on behavior. Historical antecedents of gender differences, development of gender identity, and sex differences in performance, attribution, achievement, cognition, interpersonal behavior, psychopathology, and therapy response will be examined. Prerequisite: 1010.
- 2430. INTRODUCTION TO EXPERIMENTAL PSYCHOLOGY.** (3-3-0). History of experimental principles as applied to the basic processes of psychology: learning, perception, and motivation. Basic classical and modern experiments in psychology. Report writing in APA style and format. Prerequisite: 1010.
- 2450. PERSONAL ADJUSTMENT AND DEVELOPMENT.** (3-3-0). Understanding and dealing with frustration, adjustment mechanisms, personal motivation, feelings and emotions; interpersonal adjustments; identifying and resolving common problems of conflict and adjustment in stages of life; self-understanding, self-acceptance, and maximum utilization of personal capacities and traits. Prerequisite: 1010.
- 4040. CHILDHOOD DISORDERS.** (3-3-0). Empirical survey of theoretical, treatment, and research issues in child psychopathology using the DSM classification system. Explores history, ethics, developmental factors, characteristics, causes, and treatment of childhood psychological disorders. Prerequisite: 1010, 2050.

For Undergraduates and Graduates

- 3010. PHYSIOLOGICAL PSYCHOLOGY.** (3-3-0). Functional organic and biochemical factors as determinants of personality and behavior; emphasis on the nervous and endocrine systems.
- 3020. EXPERIMENTAL PSYCHOLOGY: LEARNING.** (3-3-0). Principles and basic experimental techniques in the study of human and animal learning. Experiments and report writing in APA style and format. Prerequisite: 2430, 4400.
- 3060. SOCIAL PSYCHOLOGY.** (3-3-0). Individual in relationship to others; nature and development of personality; social behavior and adjustment. Experiments and report writing in APA style and format.
- 3070. EXPERIMENTAL PSYCHOLOGY: PERCEPTION.** (3-3-0). Principles and basic experimental techniques in study of perception. Experiments and report writing in APA style and format. Prerequisite: 2430, 4400.
- 3080. EXPERIMENTAL PSYCHOLOGY: MOTIVATION.** (3-3-0). Basic experimental techniques in the study of human and animal motivation. Experiments and report writing in APA style and format. Prerequisite: 2430, 4400.
- 4020. BEHAVIOR MODIFICATION.** (3-3-0). Principles and applications of behavior modification techniques; learning, emotional and behavioral problems. Prerequisites: six hours of psychology.
- 4030. ADVANCED GENERAL PSYCHOLOGY.** (3-3-0). Principles and applications of psychology as a science in the understanding, prediction, and control of behavior. May not be used toward graduate degree requirements in clinical or school psychology programs.
- 4400. STATISTICS FOR PSYCHOLOGY.** (3-3-0). Statistical procedures employed in the description and interpretation of psychological, educational, and behavioral research data and measurement.

- 4410. PSYCHOLOGICAL TESTING AND MEASUREMENTS.** (3-3-0). Characteristics, interpretations, uses and misuses of standardized psychological tests; examples of each variety; development and use of objective tests, essay tests, rating scales, attitude scales. Prerequisite: 4400 recommended.
- 4450. ABNORMAL PSYCHOLOGY.** (3-3-0). Nature and etiology of common deviant mental and emotional conditions; potentials for rehabilitation, readjustment, and learning. Prerequisite: 12 hours of psychology for majors; consent of head of department for non-majors; 12 hours of psychology or consent of department head of graduate non-psychology major.
- 4470. PERSONALITY DYNAMICS.** (3-3-0). Dynamics underlying modes of behavior; rationale of adaptive and maladaptive behavior; behavior disorders within the normal range; theories of personality. Prerequisite: 12 hours in psychology.
- 4480. SYSTEMS OF PSYCHOLOGY.** (3-3-0). Comparison, with some unifying reconciliation, of schools of psychology which represent major different approaches to the study of human behavior. Prerequisite: 12 hours of psychology.
- 4490. INDEPENDENT PSYCHOLOGICAL RESEARCH.** (3-3-0). Student will design, conduct, and file a satisfactory report of an original psychological research project, under direction of the assigned advisor. Not limited to laboratory experimentation. Prerequisite: 2430, 4400, 12 hours in psychology.
- 4500. PSYCHOLOGY IN BUSINESS AND INDUSTRY.** (3-3-0). Psychological foundations of practices, procedures, and conditions in business and industry; psychological implications of work in relation to personality and culture.
- 4550. ENVIRONMENTAL PSYCHOLOGY.** (3-3-0). Interrelation of behavior to artificial and natural environments. Effects of noise, temperature, air pollution, crowding, and other environmental aspects of the urban and rural settings.
- 4600. FIELD EXPERIENCE IN THE MENTAL HEALTH AGENCY.** (3-3-0). Nine to 12 hours per week working in a mental health facility. Prerequisites: senior standing; 24 hours in psychology, including 4450 or 4470, consent of instructor.
- 4650. SEMINAR IN CURRENT TOPICS IN PSYCHOLOGY.** (3-3-0). Seminar in a selected, current topic. Topic will vary from semester to semester. Students will present a well researched paper in the specific topic. Course may be taken a maximum of two times. Prerequisite: senior standing or consent of instructor.
Subtitles:
01-Eating and Drinking Disorder.
- 4700. SEMINAR IN ALCOHOLISM.** (3-3-0). Current scientific information, materials, and techniques for dealing with alcoholism. Prerequisite: 4450, 12 hours in psychology.
- 4800. CLINICAL BIOFEEDBACK TECHNOLOGY.** (3-2-2). Clinical biofeedback applications including stress disorders, autogenic training, progressive relaxation, stress management training, and behavioral psychotherapy. Prerequisite: 3010 or consent of instructor.

For Graduates Only

- 5100. PSYCHOLOGICAL RESEARCH: METHODS.** (3-3-0). Descriptive methods, correlation, multiple correlation, simple and multiple regression analysis, curve fitting, probability, nature of statistical inference, sampling distributions, nonparametric methods, and analysis of variance. Prerequisite: 4400.
- 5120. PSYCHOLOGICAL RESEARCH: DESIGN AND EVALUATION.** (3-3-0). Theory and application of experimental design in psychological research; design strategies in relation to statistical procedures; analysis of variance and covariance. Prerequisite: 5100 or demonstrated competency.
- 5200. CLINICAL AND COMMUNITY PSYCHOLOGY.** (3-3-0). History and development, techniques, trends, ethical standards, models for intervention, legal aspects of intervention, legislation that affects the delivery of mental health services. Prerequisites: 4450 or 4470, consent of instructor, and coregistration or credit in 5201.
- 5201. PRACTICUM IN CLINICAL AND COMMUNITY PSYCHOLOGY.** (1-0-0). Demonstrations, projects, discussions, case analysis, intake and interview strategies. Prerequisite: coregistration in or credit for 5200.
- 5220. SCHOOL PSYCHOLOGY.** (3-3-0). History, functions, duties, ethics, and legal responsibilities of psychologists in the school system. Prerequisite: 4450 or 4470 and EAS 5100.

- 5250. PSYCHOLOGICAL INTERVENTION AND THERAPY.** (3-3-0). Major theories and principles of the remediation of deviate and inappropriate behavior. Psychotherapy, group techniques, dynamic and learning theory based approaches to therapy, behavior modification, and related techniques. Prerequisites: 5200, 5750, or consent of instructor and coregistration in or credit for 5251.
- 5251. PRACTICUM IN PSYCHOLOGICAL INTERVENTION AND THERAPY.** (1-0-0). Remediation of problematic behavior; interviewing, therapy, consultation and measurement of therapeutic outcome. Prerequisite: coregistration in or credit for 5250.
- 5300. INTELLECTUAL ASSESSMENT: WECHSLER AND BINET SCALES.** (2-2-0). Theories of intelligence, problems of intellectual assessment and experience in the technique of test administration. Wechsler and Binet scales. Other methods of intellectual assessment including methods employed with the handicapped and culturally disadvantaged persons. Prerequisite: 4410 or Counseling and Guidance 5520, consent of instructor, and registration in or credit for 5301.
- 5301. PRACTICUM IN INTELLECTUAL ASSESSMENT: WECHSLER AND BINET SCALES.** (2-0-0). Administration, scoring, and interpretation of intellectual assessment tests, with emphasis on the Wechsler and Stanford-Binet Test batteries. Prerequisite: registration in or credit for 5300.
- 5320. PSYCHOLOGICAL ASSESSMENT: PERSONALITY AND AFFECTIVE BATTERIES.** (3-3-0). Theory and rationale in the use of projective and objective assessment instruments in applied settings for adults and children. Prerequisites: 4410 or Counseling and Guidance 5520, 4450 or 4470 and registration in or credit for 5321.
- 5321. PRACTICUM IN PSYCHOLOGICAL ASSESSMENT: PERSONALITY AND AFFECTIVE BATTERIES.** (1-0-0). Administration, scoring and interpretation of personality tests for adults and children. Prerequisite: registration in or credit for 5320.
- 5400. GROUP AND FAMILY PSYCHOTHERAPY.** (3-3-0). Overview of the major theoretical and practical issues in group and family psychotherapy as they relate to the clinical setting. Development of basic skills in small group facilitation and strategies for family assessment and intervention. Prerequisites: 5250, 5251, 5750, 5320, 5321.
- 5470. THEORIES OF PERSONALITY.** (3-3-0). Comparison and analysis of major theories of personality, classic Greek through predominant modern. Prerequisite: 4470 recommended.
- 5490. INDEPENDENT STUDY.** (1 to 3-0-0). May be repeated up to six hours. Only three hours may be counted toward degree credit in community and school psychology. May not be counted toward degrees requiring thesis. Prerequisite: 5100.
- 5500. EXTERNSHIP IN CLINICAL PSYCHOLOGY.** (3 to 12-0-0). Forty hours per week direct experience in an approved mental health setting under the supervision of a licensed psychologist. Application of appropriate intervention techniques; assessment tools and techniques; management of clinical cases. Prerequisites: 5200-5201, 5250-5251, 5300-5301, 5320-5321, and 5750 with at least a grade of B and consent of the student's graduate advisory committee. Must be completed with a grade of B or better in order to be used toward the master's degree.
- 5600. DIAGNOSTIC EXPERIENCE IN THE COMMUNITY MENTAL HEALTH CENTER.** (3-3-0). Applied experience in psychodiagnosis and interviewing techniques in the community mental health center. Nine to 12 hours per week in the mental health facility. Prerequisite: 5200, 5250, 5300, 5320, 5750 and consent of instructor. May not be counted in the 24 hours required for graduation in the preclinical psychology curriculum.
- 5750. PSYCHOPATHOLOGY.** (3-3-0). Nature and etiology of more severe forms of psychoneuroses and psychoses encountered in hospitals or clinics. Prerequisite: 4450 or 4470.
- 5780. ADVANCED PHYSIOLOGICAL PSYCHOLOGY.** (3-3-0). Examination of the biological basis of behavior, with emphasis on underlying neural mechanisms. Surveys neuroanatomy, neurophysiology, and investigates how the nervous system produces various types of behavior. Prerequisite: 3010 or consent of instructor.
- 5790. INTRODUCTION TO PROJECTIVE TECHNIQUES.** (2-2-0). Theory and utilization of various projective techniques in the study of personality; Rorschach and Thematic Apperception tests. Prerequisite: 5320, and coregistration in or credit for 5791.
- 5791. PRACTICUM IN PROJECTIVE TECHNIQUES.** (1-0-0). Administration, scoring and interpretation of various commonly used projective techniques. Prerequisite: coregistration in or credit for 5790.
- 5900. SEMINAR IN PSYCHOLOGICAL RESEARCH.** (1-1-0). Reports of research projects by students and staff. Students must register for this course in at least two semesters; prior to registration in thesis (Psychology 5980) or field study (Psychology 5490) and again during the first registration in thesis or field study. Prerequisite: nine hours of graduate psychology credit.
- 5980. THESIS.** (3 to 6-0-0).

- 6020. THEORIES OF LEARNING.** (3-3-0). Evaluation of theories in terms of their success in accounting for the observed phenomenon of complex learning; problems of integrating learning experience and research in animal and human behavior. Prerequisite: 3020 or Educational Psychology 5410.
- 6060. GROUP DYNAMICS AND HUMAN RELATIONS.** (3-3-0). Current developments in theory, methods and principles for understanding and controlling interpersonal behavior in small groups.
- 6500. INTERNSHIP IN SCHOOL PSYCHOLOGY.** (3 to 12-0-0). May be repeated for maximum of 18 hours. Placement in a functioning school system under the supervision of a licensed or certified school psychologist. Activities include the application of assessment tools and techniques of school psychology, teacher consultation, intervention methods and other tasks suitable to the school setting. Prerequisite: 5200-5201, 5220, 5250-5251, 5300-5301, 5320-5321, and Special Education 5030 and 5960, with no grade lower than B, Psychology 5100, 5120, 6800, EAS 5100, Educational Psychology 5410, 5420, and 5460, and consent of the student's advisory committee.
- 6800. SEMINAR IN BEHAVIOR MODIFICATION.** (3-3-0). History, techniques, and research in behavior modification. Prerequisite: 3020 or Educational Psychology 5410 and six additional hours in behavioral sciences at the graduate level.
- 6810. SEMINAR IN PSYCHOTHERAPY.** (3-3-0). History, techniques, and research in psychotherapy. Prerequisite: 5200, 5250, 5750, and three hours in 5000-6000 level psychology courses.
- 6820. SEMINAR IN LEARNING.** (3-3-0). Topics in learning. Review of research on contemporary issues in the area of animal and human learning. Prerequisite: 6020 or Educational Psychology 5410, consent of instructor, and nine hours in 5000-6000 level psychology courses.
- 6830. SEMINAR IN PSYCHOPATHOLOGY AND TREATMENT IN CHILDREN.** (3-3-0). Development of pathological behavior in childhood and trends and techniques in psychotherapy with children. Prerequisite: 5200, 5250, 5750, and consent of instructor.

RADIOLOGIC TECHNOLOGY (RADT)

For Undergraduates Only

- 3400. RADIOBIOLOGY AND PROTECTION.** (3-3-0). Interaction of radiation with matter; biological effects of ionizing radiation; quantities and units; safe handling of radio-active materials; rules and regulations pertaining to the medical use of radionuclides; and disposal of radioactive waste. (Same as Radiologic Technology 4420).
- 3410. RADIOLOGY INTRODUCTION.** (2-2-0). History of radiology, department and hospital organization, ethics, medico-legal considerations, role of the technologist on the medical team, radiographic procedural introduction, medical terminology. Professional organization of radiologic technology and certification as well as basic radiation protection. General patient care and body mechanics. Prerequisite: Zoology 1220, 1221, 1230 and 1231.
- 3420. PATIENT CARE AND PHARMACOLOGY METHODS.** (3-1-2). Management of medical and surgical asepsis, patient ability assessment, patient history documentation, trauma, shock urinary catheterization, and EKG. The use of contrast media and drugs in the management of radiologic procedures.
- 3430. SECTIONAL ANATOMY.** (2-2-0). Presentation of Human Anatomy through the use of computerized tomography, ultrasound and magnetic resonance imaging films. Prerequisites: Zoology 1220, 1221, 1230, 1231.
- 3510. RADIOLOGIC SCIENCE I.** (3-3-0). Application of the principles of physics to radiography and radiologic equipment. Image formation: beam limiting devices, filters, grids, intensifying screens, production of x-rays, film processing and characteristics, factors affecting radiographic quality. Equipment maintenance and operation, biological effects of ionizing radiation, methods of detection and protection radiation regulations. Introduction to advanced radiographic equipment. Prerequisite: 3400, 3420, 3430, Corequisites: 3520, 3530.
- 3520. RADIOGRAPHIC PROCEDURES I.** (5-4-6). Instruction in positioning nomenclature, anatomy and physiology, radiographic positioning, pathology and technical factors involving the upper and lower extremities, chest, abdomen, shoulder girdle and pelvic girdle. Radiographs presented and discussed by instructors with student participation. This discussion shall include patient clinical data, techniques employed, radiation protection positioning, pathology, anatomy and radiographic quality. Prerequisite: 3410. Corequisites: 3510, 3530.
- 3530. RADIOLOGIC TECHNOLOGY CLINICAL I.** (4-3-24). Observation and assistance in the clinical setting. Application of theory commensurate with level attained in didactics. Prerequisites: 3410, 3420, 3430, Health Science 3010. Corequisites: 3520, 3530.

- 3600. RADIOLOGIC SCIENCE II.** (3-3-0). Advanced radiographic exposure through completion of problems and experiments. Technique chart formation, methods and recommendations for quality assurance through quality control. Principles of fluoroscopy, cineography, tomography, mamography, computed tomography, ultrasound, magnetic resonance imaging, digital subtraction angiography, and nuclear medicine. Prerequisite: 3510, 3520, 3530. Corequisites: 3610, 3620.
- 3610. RADIOGRAPHIC PROCEDURES II.** (5-3-6). Instruction in positioning nomenclature, anatomy and physiology, radiographic positioning, pathology and technical factors involving upper GI series, small bowel series, esophagram, barium enema, IVP, cystogram, cervical spine, thoracic spine, lumbar spine, sacrum/coccyx, ribs and sternum. Radiographs presented and discussed by the instructors with student participation. Prerequisite: 3520. Corequisites: 3600, 3620.
- 3620. RADIOLOGIC TECHNOLOGY CLINICAL II.** Observation and assistance in the clinical setting. Application of theory commensurate with level attained in didactics. Refinement of skills in Clinical level I. Prerequisites: 3510, 3520, 3530. Corequisites: 3600, 3610.
- 3700. RADIOGRAPHIC PROCEDURES III.** (3-1-4). Instruction in positioning nomenclature, anatomy and physiology, radiographic positioning, pathology and technical factors involving the skull, sinuses, mandible, zygomatic arches, facial bones, mastoids, TMJ's, optic foramen, skull trauma. Radiographs presented and discussed by the instructors with student participation. This discussion shall include patient clinical data, techniques employed, radiation protection, positioning, pathology, anatomy and radiographic quality. Prerequisite: 3610. Corequisites: 3700, 3710, Allied Health 4710.
- 3710. RADIOLOGIC TECHNOLOGY CLINICAL III.** Observation and assistance in the clinical setting. Application of theory commensurate with level attained in didactics. Refinement of skills in Clinical level II. Prerequisites: 3620, 3610. Corequisites: 3700, 4700, Allied Health 4710.
- 4320. CLINICAL PRACTICUM.** (3-0-3).
Subtitles:
01-magnetic resonance imaging
02-ultrasound
03-computed tomography
04-radiography
- 4340. INTRODUCTION TO NUCLEAR MEDICINE.** (3-3-0). History of nuclear medicine; department and hospital orientation; ethics and medical-legal aspects; patient care and laboratory techniques; and introduction to instrumentation, radiopharmacy, and radiation safety.
- 4350. NUCLEAR PHYSICS.** (3-3-0). Basic atomic and nuclear physics; modes of radioactive decay; decay of radioactivity; production of radionuclides; interaction of radiation with matter; and internal radiation dosimetry.
- 4360. RADIATION CHEMISTRY AND RADIOPHARMACY.** (3-3-0). Basic chemical concepts in inorganic, organic, and biochemistry most applicable to nuclear medicine technology; principles and operation of radionuclide generators; quality control of radiopharmaceuticals; and review of radiopharmaceuticals used in imaging, non-imaging, and therapeutic procedures.
- 4370. NUCLEAR MEDICINE PROCEDURES I.** (3-3-0). Nuclear medicine procedures involving the endocrine, cardiovascular, skeletal, and hematopoietic systems with emphasis on indications, patient preparation, radiopharmaceuticals, instrumentation, imaging techniques, and pathology.
- 4380. ADVANCED ANATOMY AND PHYSIOLOGY.** (3-3-0). In depth study of human anatomy and physiology applicable to nuclear medicine technology.
- 4390. NUCLEAR MEDICINE PRACTICUM I.** (3-0-3). Supervised clinical practice performing basic imaging and non-imaging in-vivo procedures, radioimmunoassay tests, and radiopharmacy duties.
- 4400. INSTRUMENTATION AND COMPUTERS.** (3-3-0). Radiation detectors and electronics for detector systems; pulse-height spectrometry; counting systems; basic principles and performance characteristics of the Anger camera; image quality; tomography principles and systems; and digital image processing.
- 4410. NUCLEAR MEDICINE PROCEDURES II.** (3-3-0). Nuclear medicine procedures involving the central nervous, respiratory, gastrointestinal, and genitourinary systems and inflammatory and tumor processes with emphasis on indications, patient preparation, radiopharmaceuticals, instrumentation, imaging techniques, and pathology; therapeutic applications.
- 4420. RADIATION BIOLOGY AND PROTECTION.** (3-3-0). Interaction of radiation with matter; biological effects of ionizing radiation; quantities and units; safe handling of radio-active materials; rules and regulations pertaining to the medical use of radionuclides; and disposal of radioactive waste. (Same as Radiologic Technology 3000).

- 4430. NUCLEAR MEDICINE PRACTICUM II.** (5-0-5). Supervised clinical practice performing advanced imaging and non-imaging procedures, radioimmunoassay tests, and radiopharmacy duties; and clinical correlation of nuclear medicine procedures.
- 4440. NUCLEAR MEDICINE PRACTICUM III.** (5-0-5). Supervised clinical practice at affiliated hospitals performing basic and advanced imaging and non-imaging in vivo procedures.
- 4450. NUCLEAR MEDICINE MANAGEMENT.** (1-1-0). JCAHO, CAP, CAHEA, and NRC standards, guidelines, rules, and regulations for accreditation; quality assurance; preparation of resumes; and registry review.
- 4700. DIAGNOSTIC INVASIVE TECHNOLOGY.** (1-1-0). The study of normal cardiovascular physiology, congenital and acquired abnormalities of the cardiovascular system; and understanding electrophysiology principles, pharmacology, and myocardial function, biotelemetry, and x-ray and radioisotope instrumentation. Introduction to the cardiovascular measurements, monitoring, instrumentation for the clinical laboratory and patient care.
- 4800. SEMINAR.** (2-2-0). Overview of radiologic technology. Emphasis on integration and application of theory. Includes examination procedures stressed by the American Registry of Radiologic Technology. Presentation and demonstration by student. Prerequisites: 3700, 3710. Corequisite 4810, 4820, Allied Health 4810 (or approval of radiology faculty).
- 4810. RADIOGRAPHIC PROCEDURES IV.** (3-1-4). Advanced instruction in positioning nomenclature, anatomy and physiology, radiographic positioning, pathology and technical factors for all body parts. Advance critique in evaluation of radiographs for radiographic density, contrast, detail, distortion, artifacts, grid alignment, identification markers, radiologic procedures and proper demonstration of anatomical structure(s) and pathology. Prerequisite: 3700. Corequisites: 4820, 4800, Allied Health 4810.
- 4820. RADIOLOGIC TECHNOLOGY CLINICAL IV.** (4-3-24). Observation and assistance in the clinical setting. Application of theory commensurate with level attained in didactics. Refinement of skills in Clinical level III. Rotations include computed tomography, magnetic resonance imaging, ultrasound advanced procedures, heart catheterization, pain management and surgical procedures. Prerequisites: 3700, 3710. Corequisites 4800, 4810, Allied Health 4810.

READING (RDG)

For Undergraduates Only

- 0910. READING IMPROVEMENT.** (3-3-0). Developmental reading for students whose placement scores (ACT) indicate a need for improved reading skills. Reading comprehension, vocabulary development, flexibility of reading rate, test-taking skills are taught. Add three semester hours to degree program. Corequisite: 0912.
- 0912. READING RECITATION I.** (2-0-2). To be taken concurrently with 0910.
- 0920. READING IMPROVEMENT.** (3-3-0). Developmental reading for students whose placement scores (ACT) indicate a need for improved reading skills or who need more than one semester to improve reading skill. Add three semester hours to degree program. Corequisite: 0922.
- 0922. READING RECITATION II.** (2-0-2). To be taken concurrently with 0920.
- 1160. INTRODUCTION TO THE READING PROCESS FOR TEACHER AIDES.** (3-3-0). For aides assisting certified teachers in classroom instructional activities.
- 3030. INTRODUCTION TO READING.** (3-3-0). The reading process; instructional practices and methods in reading. Prerequisite: junior standing.
- 3060. TEACHING READING IN THE ELEMENTARY SCHOOL.** (3-3-0). Developmental program of reading in the primary and upper elementary grades, content, materials, methods, and techniques used in teaching reading in elementary school. Prerequisite: 3030, admission to candidacy for a degree in teacher education.
- ¹**4070. PRACTICUM IN READING.** (3-0-6). Reading skills, assessing reading difficulty, lesson planning, and human relations. Supervised tutoring and small group instruction in the classroom. Prerequisite: 3030, 3060 and admission to candidacy in teacher education.

¹ This course must be taken in "methods block": Education 4030 and Reading 4070.

For Undergraduates and Graduates

- 4080. TEACHING READING IN THE SECONDARY SCHOOL.** (3-3-0). Identification of reading problems in the content areas; including those in comprehension, vocabulary development, and study skills. Other topics are evaluation of textbooks, multi-cultural backgrounds, and use of a three-part lesson frame which includes pre-reading strategies, study guides, and post-reading strategies.

- 4090. READING INSTRUCTION IN ADULT EDUCATION.** (3-3-0). Identification of reading skills; evaluation of reading skills; evaluation of reading achievement; diagnosis of specific problem areas; developing instructional materials and methodology.
- 4150. SPECIAL PROBLEMS IN READING INSTRUCTION IN THE ELEMENTARY SCHOOL.** (1 to 9-3-0). Special problems uniquely related to current methods and materials of instruction in reading, grades K-8.
- 4560. SPECIAL PROBLEMS IN READING INSTRUCTION IN THE SECONDARY SCHOOL.** (1 to 9-3-0). Special problems uniquely related to current methods and materials of instruction in reading, grades 9-12.
- 4610. READING IN EARLY CHILDHOOD.** (3-3-0). Instructional techniques and materials for development of basic reading and other language arts skills in the early childhood years, with special attention to research in and development of language skills. Prerequisite: Six semester hours of undergraduate reading coursework (for undergraduate credit); undergraduate or graduate reading coursework and consent of instructor (for graduate credit).

¹ May not be used to satisfy degree requirements.

For Graduates Only

- 5050. WHOLE LANGUAGE AND MODELS OF LITERACY INSTRUCTION.** (3-3-0). Examination and evaluation of whole language and related literacy programs; construction of activities/integrated lessons and portfolio assessment. Prerequisite: graduate standing.
- 5110. READING INSTRUCTION IN THE ELEMENTARY SCHOOL.** (3-3-0). Methods and materials in teaching reading from the reading readiness stage through reading in content areas in upper elementary grades. Prerequisite: teaching experience, or an undergraduate methods course in reading.
- 5130. TRENDS AND ISSUES IN READING INSTRUCTION.** (3-3-0). Designed to explore and critically appraise significant research studies, developments, and concern related to teaching reading. Each student will undertake independent study of a problem of significance to him.
- 5150. READING STRATEGIES FOR TEACHING IN CONTENT SUBJECTS.** (3-3-0). Planning, implementing and evaluating instruction in content subjects to overcome student reading deficiencies and to improve student reading and learning performance.
- 5510. DIAGNOSIS AND CORRECTION OF READING DISABILITIES.** (3-3-0). Causation in reading disabilities; laboratory experience with diagnosis instruments and procedures for corrective instruction in reading. Prerequisite: 5110.
- 5710. ADVANCED DIAGNOSIS AND CORRECTION OF READING DISABILITIES.** (3-3-0). Advanced diagnostic testing and corrective instruction; case study reporting, laboratory experience in diagnosis and treatment of reading difficulties. Prerequisite: 5510.
- 6440. SEMINAR IN READING.** (1 to 6-3-0). Research in reading with opportunities for individual investigation of special problems.
- 6510. LABORATORY PRACTICUM IN READING.** (3-3-0). Supervised laboratory experience with individual and small groups of students; case conferences. Prerequisite: 5510 and consent of instructor.

SCIENCE (SCI)

For Undergraduates Only

- 1010. BASIC CONCEPTS OF PHYSICAL SCIENCE I.** (3-3-0). Basic concepts of physics and chemistry. (May not receive credit for both Science 1010 and Chemistry 1030 or 1070.)
- 1020. BASIC CONCEPTS OF BIOLOGICAL SCIENCE I.** (3-3-0). Basic biological principles with human perspective. Prerequisite: 1010. (Students may not receive credit for both Science 1020 and Biology 1010.)
- 2000. FOUNDATIONS OF LIFE.** (3-3-0). Application of basic scientific concepts to recent advances in our knowledge of living systems. Prerequisite: 1020. (May not receive credit for both Science 2000 and Microbiology 2060 or 2080.)
- 2010. BASIC CONCEPTS OF PHYSICAL SCIENCE II.** (3-3-0). Basic concepts of astronomy and earth science, selected topics from contemporary science. Prerequisite: 1020. (May not receive credit for both Science 2010 and Chemistry 1040.)
- 2020. BASIC CONCEPTS OF BIOLOGICAL SCIENCE II.** (3-3-0). Basic biological principles of evolution, ecology and the environment. Prerequisite: 1020. (Students may not receive credit for both Science 2020 and Biology 1020.)

- 2030. PHYSICAL GEOLOGY.** (3-3-0). Cycles and rhythms of geological processes of the earth; impact of man on the geological environment. Prerequisite: 1020. (May not receive credit for both Science 2030 and Geology 1030.)
- 3011. PHYSICAL SCIENCE LABORATORY I.** (1-0-3). Practical experience in the design, construct and conduct experiments in basic physics and chemistry at an introductory level. These experiments will demonstrate concepts relevant to elementary physical science. Prerequisite: 1010, 1020, 2010.
- 3021. BIOLOGICAL SCIENCE LABORATORY I.** (1-0-3). Practical experiences in the design, construction, and conduct of laboratory exercises in biological sciences at the introductory level. Exercises will enhance and demonstrate concepts relevant to Science 1020 and 2020. Prerequisite: 1010, 1020, 2010.
- 3031. INTEGRATED SCIENCE LABORATORY I.** (1-0-3). Practical experience in the design, construction, and conduct of laboratory exercises that integrate the sciences at the introductory level. These exercises will enhance and demonstrate concepts that span physical, biological, earth and space science.

For Graduates Only

- 5010. SCIENCE FOR ELEMENTARY SCHOOL TEACHERS.** (3-3-0). Topics in biological, physical and earth science for elementary school teachers. Prerequisite: twelve hours of science.
- 5020. HISTORY AND PHILOSOPHY OF NATURAL SCIENCE.** (3-3-0). The development of the sciences will be studied and the process known as scientific thought will be critically examined. Students will be thoroughly familiar with early and traditional science by the end of the course, and will be comfortable with the vocabulary and general principles of the disciplines.

SOCIAL STUDIES (SST)

For Undergraduates and Graduates

- 3030. LOUISIANA STUDIES.** (3-3-0). Louisiana in the South and the Nation; the natural landscape; exploration and colonization by Europeans; economic, social, and political development during the French, Spanish, and American periods; Louisiana and Southern industrialization.

SOCIAL WORK (SOWK)

For Undergraduates Only

- 2090. SOCIAL WELFARE AS A SOCIAL INSTITUTION.** (3-3-0). Public and private methods of care for the poor, ill, and socially disadvantaged; historical perspective for contemporary approaches to social welfare. Prerequisite: Sociology 1010.
- 2100. SOCIAL WORK AS A PROFESSION.** (3-3-0). Development of social work as a profession. Value, knowledge, and skill bases of social work in the perspective of generalist philosophy. Prerequisite: 2090 or consent of instructor.
- 3030. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT I.** (3-3-0). Individual differences, cultural diversity, growth, and change utilizing a systems framework and an ecological perspective. Content will be organized around human development from conception through adolescence.
- 3040. HUMAN BEHAVIOR AND THE SOCIAL ENVIRONMENT II.** (3-3-0). Individual differences, cultural diversity growth, and change utilizing a systems framework and an ecological perspective. Content will be organized around human development from young adulthood through later adulthood.
- 3120. SOCIAL WORK METHODS I.** (3-3-0). Social work processes, concepts, and theories applied to individual and family levels of intervention. Establishment of working relationship with general interviewing skills applicable to these client systems. Individual and family dynamics and the role of the social worker. Prerequisite: admission to the Social Work Professional Program.
- 3130. SOCIAL WORK METHODS II.** (3-3-0). Group work, theory, and processes. Basic techniques through an experiential approach. Prerequisite: 3120 or consent of instructor.
- 4030. STATISTICS IN SOCIAL WORK RESEARCH.** (3-3-0). Descriptive and inferential statistics for social workers. Levels of measurement, measure of central tendency and variability, crosstabulation analysis, correlation, and hypothesis testing including chi-square, analysis of variance, and multiple correlation and regression analysis.
- 4040. SOCIAL WORK RESEARCH METHODS.** (3-3-0). The fundamentals of social work research. Problem formulation and measurement, research design, quantitative and qualitative modes of observation, and analysis of data for social workers. Prerequisite: 3130.

- 4190. FIELD WORK.** (6 to 12-0-0). Placement concurrent with other classes. Sixteen to 32 hours per week directed field practice education and two-hour weekly seminar integrating theory and field instruction. Social work majors only. Prerequisite: 3130.
- 4260. PROTECTIVE SERVICES IN CHILD WELFARE.** (3-3-0). Effects of physical, sexual, and emotional abuse on children; causes and consequences of neglect; approaches to the prevention of child abuse and neglect, permanency planning, foster care, adoption, and institutional services, family preservation, and related topics. Prerequisite: junior standing.
- 4270. CHILD WELFARE AND THE LAW.** (3-3-0). Legal authority for child welfare programs, juvenile and family courts, testifying in court, important court decisions in child welfare, review of the Louisiana Children's Code, and related topics. Prerequisite: junior standing.
- 4280. FAMILY SERVICES.** (3-3-0). Family systems theory, cultural diversity and family systems, life cycle of the family, functional dysfunctional families, coping with separation, loss, and grief, intervention strategies and techniques, and related topics. Prerequisite: junior standing.
- 4350. CONTEMPORARY ISSUES IN SOCIAL POLICY.** (3-3-0). Topics of national significance related to the field of social welfare; welfare rights, guaranteed annual income, national health insurance, issues pertaining to women and ethnic minorities. Topics will vary from semester to semester to reflect current areas of concern. Prerequisite: junior standing.
- 4450. CULTURAL DIVERSITY.** (3-3-0). Examines the cultural characteristics of minorities, multicultural perspectives on families, and effective culture-sensitive social work practice with diverse populations.

For Undergraduates and Graduates

- 3000. INTRODUCTION TO TRANSACTIONAL ANALYSIS I.** (3-3-0). Concepts and theory of transactional analysis; didactic and experiential approach utilizing small group interaction and communication. Prerequisite: junior standing.
- 3140. SOCIAL WORK METHODS III.** (3-3-0). Community organization; structure and functions of communities; processes of directed change, including community problem solving and the role of the professional change agent; the management of social conflict; current approaches to social planning and participation in problem solving exercises using the community as a laboratory. Prerequisite: 3130.
- 3180. TECHNIQUES OF INTERVIEWING.** (1 to 3-3-0). Interviewing skills for individual, group, and family casework. Treatment techniques and the use of self in interviewing. Prerequisite: juniors standing or consent of instructor.
- 4050. PREPARATION FOR MARRIAGE AND FAMILY LIFE.** (3-3-0). Factors necessary for adequate marriage preparation; dating, engagement, and the communications process. Elements of successful family life; causes of marital breakdown; significance of the self concept in marital adjustment. (Same as Sociology 4050).
- 4220. SELF ACTUALIZATION FOR SOCIAL WORK.** (1 to 3-3-0). Use of the laboratory approach in helping the student assess and enhance his capacity for working effectively with people in social work settings. Through a group approach, focus will be on self awareness, interpersonal communication, and the promotion of personal growth. Prerequisite: consent of instructor.
- 4230. INTRODUCTION TO CHILD WELFARE.** (3-3-0). General introduction to major topics in child welfare, including historical and philosophical foundations, protective services, guardianship, services in the home, out-of-home care, child advocacy, and related topics. Prerequisite: junior standing.
- 4240. HUMAN SEXUALITY.** (1 to 3-3-0). Dynamics of human sexual development; the whole person and adjustment at critical life stages; management of sexual maladjustment difficulties; approaches to sex education. Prerequisite: senior standing or consent of instructor.
- 4370. STRESS MANAGEMENT.** (3-3-0). Nature of stress and burnout. Identification and evaluation of psychological and environmental stressors. Techniques and strategies for coping with stress. Prerequisite: junior standing or consent of instructor.

SOCIOLOGY (SOC)

For Undergraduates Only

- 1010. PRINCIPLES OF SOCIOLOGY.** (3-3-0). Human social relationships and processes; functioning of familial, recreational, religious, economic, political, and other social groups in contemporary society.

- 2020. SOCIAL PROBLEMS.** (3-3-0). Social problems of modern life, especially those related to changes in social organization; crime; racial conflicts; economic maladjustments resulting from modern industrialization; urbanization and population trends. Prerequisite: sophomore standing.
- 4110. SPECIAL PROBLEMS.** (1 to 3-3-0). Directed individual study of a problem related to the fields of sociology, social work. Prerequisite: Sociology 1010 and junior or senior standing; scheduled by arrangement with instructor only.
- 4190. STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES.** (3-3-0). Utilization of the software SPSSX with Digital Vax. Data entry and manipulation. The use of in-line and external files. Prerequisite: 1010 and junior standing.
- 4200. SURVEY RESEARCH METHODS AND DATA ANALYSIS.** (3-3-0). The pure and applied dimensions of survey research. In addition, presentation of data in various forms (especially by means of computer use). Prerequisite: six hours of mathematics and consent of instructor.
- 4250. PROBATION AND PAROLE.** (3-3-0). History, philosophy, and theory of pre-institutional, and after-care programs for probationers and parolees; probation and parole processes and procedures including supervision, pre-sentence investigations, and work release programs. Prerequisite: 1010 or consent of instructor.

For Undergraduates and Graduates

- 3040. CRIMINOLOGY AND PENOLOGY.** (3-3-0). Definition, incidence, and significance of crime in modern society; factors leading to crime; application of criminal law through police and courts; treatment of convicted criminals. Prerequisite: 1010 or consent of instructor.
- 3060. SOCIAL PSYCHOLOGY.** (3-3-0). The individual in relation to society; socialization and personality development. Prerequisite: 1010 or Psychology 1010. (Same as Psychology 3060).
- 3080. URBAN SOCIOLOGY.** (3-3-0). The city as nucleus of modern industrial society; urban institutions, population, ecology, and problems. Prerequisite: 1010 or consent of instructor.
- 3090. JUVENILE DELINQUENCY.** (3-3-0). Deviant behavior in children; extent, causes, and control of juvenile delinquency. Prerequisite: six hours of sociology or consent of instructor.
- 4050. PREPARATION FOR MARRIAGE AND FAMILY LIFE.** (3-3-0). Factors necessary for adequate marriage preparation; dating, engagement, and the communications process. Elements of successful family life; causes of marital breakdown; significance of the self concept in marital adjustment. (Same as Social Work 4050.)
- 4080. RACE AND CULTURE RELATIONS.** (3-3-0). Race as a biological and cultural concept; status of minority groups in contemporary societies; conditions in the U.S. Prerequisite: 1010 or consent of instructor.
- 4120. INTRODUCTION TO SOCIOLOGICAL THEORY.** (3-3-0). Schools of sociological theory and their relationships; theories of European and American sociologists. Prerequisites: 1010, junior standing or consent of instructor.
- 4140. GERONTOLOGY.** (3-3-0). Aging and retirement in American society; changes, social policies, and reviews of research. Prerequisite: six hours of sociology or consent of instructor.
- 4150. MEDICAL SOCIOLOGY.** (3-3-0). Review of sociological research into the organization and administration of health care services; status, roles, and activities of health care personnel; health care organizations as social institutions. Prerequisite: six hours of sociology or consent of instructor.
- 4400. SOCIOLOGY OF THE FAMILY.** (3-3-0). Family as a social institution in various cultures. Theory and research concerned with the family. Prerequisites: 1010 and junior standing or consent of instructor.
- 4450. SOCIOLOGY OF DEATH AND DYING.** (3-3-0). Death as a source of insight and theories concerning the relationship of society to the individual. Functionalists and social-psychological perspectives on death in the work of Durkheim, Malinowski, Parsons, Marcuse and Kubler-Ross. Suicide, games and festivals, ecstatic movements, memorials and contact with the dead in American society. Prerequisite: 1010 or consent of instructor.
- 4500. SEMINAR IN DRUG ABUSE.** (1 to 3-3-0). Extent of the problem and its setting; contributing factors and consequences; patterns and meanings in youthful drug use; programs for prevention and rehabilitation. Prerequisite: 2020 or consent of instructor.

SPACE SCIENCE (SPSC)

For Undergraduates Only

- 1010. SPECIAL TOPICS IN SPACE SCIENCE.** (1-2-0). Elementary concepts in space science. Open only to students designated as NASA Scholars. No more than four hours may apply toward degree requirements.

For Graduates Only

- 5120. INTRODUCTION TO SPACE FLIGHT FOR ELEMENTARY TEACHERS.** (3-3-0). The development of rocket flight from 1906 to 1970 by the major designers. Considerations for satellite design for earth or interplanetary flight. A brief study of the solar system and introduction to central force fields. Prerequisite: six hours of mathematics and six hours of physical science.
- 5130. INTRODUCTION TO ASTROPHYSICS AND SPACE SCIENCE FOR SECONDARY TEACHERS.** (3-3-0). The solar system, celestial mechanics, stellar structure, galactic phenomena, and cosmology. Prerequisites: two semesters of general physics, Mathematics 2100. The course will substitute for a physics course in a certification program for general science.

SPANISH (SPAN)

For Undergraduates Only

- 1010. INTRODUCTION TO SPANISH.** (3-3-0). Audio-lingual approach, with a minimum of formal grammar; emphasis on conversation.
- 1020. ELEMENTARY SPANISH.** (3-3-0). Continuation of 1010. Prerequisite: 1010.
- 2010. INTERMEDIATE SPANISH.** (3-3-0). Audio-lingual approach continued, supplemented by drill in the language laboratory. Reading material of moderate difficulty. Prerequisite: 1010, 1020.
- 2020. INTERMEDIATE SPANISH.** (3-3-0). Continued reading with discussions in Spanish. Review of the basic principles of grammar. Prerequisite: 2010.
- 2990. DIRECTED READING.** (3-3-0). For students pursuing a Spanish minor. May not be repeated. Does not satisfy 12 semester hour foreign language requirement.
- 3060. SPANISH GRAMMAR AND COMPOSITION I.** (3-3-0). Spanish grammar and syntax; oral pattern drills and the writing of original compositions.
- 3070. SPANISH GRAMMAR AND COMPOSITION II.** (3-3-0). Continuation of 3060. Prerequisite: 3060.
- 3100. SURVEY OF SPANISH LITERATURE FROM THE MIDDLE AGES THROUGH THE 17TH CENTURY.** (3-3-0). Forces behind the literature; outstanding examples of the literature.
- 3110. SURVEY OF SPANISH LITERATURE FROM THE 18TH CENTURY TO MODERN TIMES.** (3-3-0). Forces behind the literature; outstanding examples of the literature. Prerequisite: 3100.
- 4210. SPANISH CULTURE AND CIVILIZATION.** (3-3-0). Integration of historical, political, social, and artistic strata in Spanish culture.

SPECIAL EDUCATION (SPED)

For Undergraduates Only

- 3460. INTRODUCTION TO THE STUDY OF INDIVIDUALS WITH DISABILITIES.** (3-3-0). Common types of physical, mental, and social-emotional deviates; implications for their training or education. Prerequisite: consent of instructor.
- 4050. BEHAVIORAL MANAGEMENT AND MODIFICATION FOR SCHOOL SETTINGS.** (3-2-2). Principles and application of behavior modification techniques to learning, behavior and emotional problems in school settings designed to meet the needs of special education teachers. Prerequisite: 3460, six hours of educational psychology.

For Undergraduates and Graduates

- 4180. MANUAL COMMUNICATION I.** (3-2-2). Instructional signing systems. Manual English, signing exact English, finger-spelling and cued speech.
- 4350. INTRODUCTION TO MILD/MODERATE LEARNING AND BEHAVIOR DISORDERS.** (3-3-0). Learning characteristics of the mild and moderately handicapped, deviant behavior patterns, differences and similarities among mild and moderately handicapped, impact of research on education, cultural characteristics and the implications for special programming.
- 4360. METHODS FOR CLASSROOM ORGANIZATION AND MANAGEMENT OF THE MILD/MODERATE LEARNING AND BEHAVIOR DISORDERS.** (3-2-2). Influence of classroom environment on learning, design and organization of the physical plan of a classroom, techniques for individualization, scheduling, and classroom managing of resource and self-contained classrooms. Includes 30 hours of field experiences. Prerequisite: 4350 or 3460.

- 4380. METHODS OF TEACHING STUDENTS WITH MILD/MODERATE LEARNING AND BEHAVIOR PROBLEMS.** (3-2-2). Techniques of teaching students with mild/moderate learning and behavior problems, multi-structured approaches, cognitive and affective skill development, individualization of instruction. Observation and participation in mild/moderate resource and self-contained classrooms for a minimum of 30 hours. Prerequisite: 4350 or 5510 or consent of instructor.
- 4390. METHODS OF TEACHING BASIC SUBJECTS.** (3-2-2). Techniques of modifying content courses and subject matter curriculum to accommodate learning styles and allow for compensatory approaches for the disabled learner. Observation and participation of 30 hours. Prerequisite: 4350 or 5510 or consent of instructor.
- 4520. VOCATIONAL AND TRANSITION SERVICES FOR STUDENTS WITH DISABILITIES.** (3-3-0). Vocational and Transition Services for Students with Disabilities. Strategies for the transition of students with disabilities across the life span. Prerequisite: 3460 or consent of instruction.
- 4650. COMMUNICATION STRATEGIES FOR STUDENTS WITH SEVERE LANGUAGE AND COMMUNICATION DISORDERS.** (3-3-0). Strategies and methods to facilitate acquisition, generalization, and maintenance of functional language and communication skills for children and youth with severe language or communication disorders in both school and community-based settings. Course content includes strategies and methods for identifying and implementing augmentative and alternative communication systems. Prerequisite: 3460, 5510, or equivalent; or consent of instructor.
- 4800. PRACTICUM IN TESTS AND MEASUREMENTS FOR EXCEPTIONAL CHILDREN.** (3-1-4). Curriculum-based assessment techniques and other informal diagnostic and prescriptive techniques for students with learning and behavioral problems. Includes minimum of 60 hours of field experiences in assessment and evaluation.
- 4820. IDENTIFICATION AND EVALUATION OF CHILDREN DURING THE DEVELOPMENTAL PERIOD.** (3-2-2). Phases of assessment and on-going evaluation through multidisciplinary interface. Twenty-five contact hours.
- 4990. MEDICAL INFORMATION.** (3-3-0). Impact of chronic medical conditions on the physical, psychological, social and vocational functioning of the individual. Anatomy, physiology, and pathology of the human body; basic medical terminology. Prerequisite: consent of instructor.

For Graduates Only

- 5070. SEMINAR IN SPECIAL EDUCATION: GIFTED.** (3-3-0). Review and critique of current literature and programs for gifted and talented children and adolescents. Prerequisite: 5840 or consent of instructor.
- 5230. INSTRUCTIONAL STRATEGIES FOR STUDENTS WITH SEVERE DISABILITIES.** (3-3-0). Strategies and methods to facilitate acquisition, generalization, and maintenance of functional skills for children and youth with severe disabilities in both school and community-based settings. Course content includes strategies and methods for teaching skills across domestic, community, academic, communication, social, pre-vocational and vocational domains. Prerequisites: 3460, 5510 or equivalent; or consent of instructor.
- 5240. LEARNING AND CLASSROOM BEHAVIOR PROBLEMS FOR STUDENTS WITH SEVERE DISABILITIES.** (3-3-0). Applied behavior analytic techniques for the learning and behavior problems of students with severe disabilities. Legal and ethical concerns of behavior management practices. Field experiences: minimum of 15 hours. Prerequisites: 3460, 5510, or equivalent; or consent of instructor.
- 5270. CURRICULUM DESIGN FOR STUDENTS WITH SEVERE DISABILITIES.** (3-3-0). Curriculum approaches and strategies to design, implement, and monitor functional and age-appropriate programs for children and youth with severe disabilities in both school and community-based settings. Prerequisite: 3460, 5510, or equivalent.
- 5320. FOUNDATION OF EARLY CHILDHOOD EDUCATION FOR YOUNG HANDICAPPED CHILDREN.** (3-3-0). Historical developments, early intervention rationale, literature concerning various placement centers, current law and due process procedures, trends and issues, model program studies, staffing and administrative concerns, community and parent concerns. 20 contact hours as defined by certification standards. Prerequisite: 5510 or consent of instructor.
- 5340. EVALUATION OF EXCEPTIONAL CHILDREN.** (3 to 6-1-7 to 14). Administration of formal and informal assessment tools; curriculum based assessment. Includes 50 hours supervised practicum experience. May be repeated for a total of six hours. Prerequisite: 5510 or consent of instructor.

5350. **PARENTS OF EXCEPTIONAL CHILDREN.** (3-3-0). Theory and practice related to consulting with parents, stressing interpersonal skills required to develop and maintain the communication/organizational home-school interrelationships necessary for optimal educational planning of exceptional children. Due process and parental rights guaranteed under Public Law 94-142. Prerequisite: 5510 recommended.
5360. **LANGUAGE DEVELOPMENT FOR THE EXCEPTIONAL CHILD.** (3-2-1) Developmental stages in acquiring language skills; psycholinguistic factors influencing language development; identification and associated problems of children with language disabilities; language remediation in the special classroom. Prerequisite: 3460.
5370. **CURRICULUM AND METHODS FOR NON-CATEGORICAL EARLY CHILDHOOD SPECIAL EDUCATION.** (3-3-0). Overview of models of early intervention with varying philosophical bases, including their applicability and relevance for infant/toddlers/ preschool children with special needs. A study of developmental intervention curricula including language/communication and cognitive, physical, and social-emotional. Service delivery options will emphasize the least restrictive environment.
5410. **ORGANIZATION AND ADMINISTRATION OF SPECIAL EDUCATION PROGRAMS: PUBLIC AND PRIVATE.** (3-3-0). Problems, procedures and organization, administration, and evaluation of special classes for various types of exceptional children in the public and private school systems. Prerequisite: 5510 and Education Administration/Supervision 5100, and consent of instructor.
5420. **ADVANCED STUDY IN THE ADMINISTRATION OF PROGRAM FOR ATYPICAL STUDENTS.** (3-3-0). Program evaluation and problem solving course for school administrative personnel who deal with special programs; positive accountability methods. Prerequisite: 5410.
5430. **SUPERVISION OF SPECIAL EDUCATORS.** (3-3-0). Personnel theory as applied to special education with emphasis on planning and long range staff development for schools. Practical application of supervision change. Prerequisite: 5410, 5420.
5440. **PRACTICUM IN ADMINISTRATION/SUPERVISION IN SPECIAL EDUCATION.** (3 to 6-0-18). On-site placement of supervisory and/or administrative interns for implementation of concepts gained during university training in the administration of special programs for exceptional children. Prerequisite: 5410, 5430.
5450. **PRACTICUM, MILD/MODERATE IMPAIRED.** (3 to 6-0-12 to 24). Supervised observation and practice teaching the mild/moderately impaired for a minimum of 60 contact hours. May be repeated for a maximum of six hours credit. Prerequisite: 4370, 4380, 5510 or consent of instructor.
5460. **FIELD STUDY IN SPECIAL EDUCATION.** (6-6-0). Original field research project. Conducting a useful applied research study. The final product will be a written report on the research project.
5510. **THE STUDY OF INDIVIDUALS WITH DISABILITIES.** (3-3-0). Introduction to the study of exceptional children. Common types of physical, mental, and social-emotional deviates; implications for their training or education. Prerequisite: consent of instructor.
5520. **METHODS OF CLASSROOM ORGANIZATION, MANAGEMENT, AND MOTIVATION.** (3-3-0). The extension of basic skills applications to accommodate the specific learning needs of mild/moderate handicapped in relation to classroom organization, management and motivation. Prerequisite: admission to graduate school, 5510.
5570. **METHODS OF TEACHING BASIC SUBJECTS.** (3-2-2). Techniques of teaching students with mild/moderate learning and behavior problems, multi-structured approaches, cognitive and affective skill development, individualization of instruction. Prerequisite: 5510.
5600. **METHODS OF TEACHING STUDENTS WITH MILD/MODERATE LEARNING AND BEHAVIOR PROBLEMS.** (3-3-0). Techniques of teaching students with mild/moderate learning and behavior problems, multi-structured approaches, cognitive and affective skill development, individualization of instruction. Observation and participation in mild/moderate resource and self-contained classrooms for a minimum of 20 hours.
5830. **TEACHING CREATIVE THINKING.** (3-3-0). Theories in creativity, its measurement, and its implications for education.
5840. **PSYCHOLOGY OF THE GIFTED.** (3-3-0). Philosophy, definitions and identification, characteristics, personality development and adjustment and research findings regarding intellectually superior students. Prerequisite: 5510 or consent of instructor.
5850. **RESEARCH IN HUMAN POTENTIAL.** (3-3-0). Review of research related to special problems and populations of the gifted; research on developing the potential of gifted students, culminating with a paper of publishable quality. May be taken through independent study. Prerequisites: 5840 and Education 5010 or equivalent.

- 5860. TRENDS AND ISSUES IN CURRICULUM DEVELOPMENT FOR THE ACADEMICALLY GIFTED.** (3-3-0). Research and developments in educating the academically gifted, culminating with a research paper. May be taken through independent study. Prerequisite: 5840, its equivalent, or consent of instructor.
- 5870. COUNSELING THE GIFTED.** (3-3-0). Designed to provide school personnel and parents with techniques for enhancing interpersonal relationships with gifted students. Emphasis on counseling/communication skills and specific strategies for facilitating emotional wellness and coping ability in these students. Prerequisite: 5840 or consent of instructor. (Same as Counseling 5870).
- 5890. CURRICULUM AND METHODS FOR THE ACADEMICALLY GIFTED.** (3-3-0). Philosophy, aims, theories, organization and development of curricula and individual education programs for academically gifted students. Review and critical evaluation of materials, techniques, strategies, curricula, and programs used for educating the gifted. Prerequisite: 5840.
- 5900. PRACTICUM, ACADEMICALLY GIFTED.** (3-0-6). University-supervised participation in program designed to teach academically gifted students. May be repeated for a maximum of nine hours credit in order to obtain the 200 student-contact hours required for state certification. Prerequisites: 5840 and 5860 or 5890.
- 5910. SEMINAR IN SPECIAL EDUCATION AS APPLIED TO EDUCATION.** (3 to 6-1-7 to 14). Seminar requiring the review, critique, and integration of current literature. May be repeated for three hours. Prerequisite: 5510 or consent of instructor.
- 5920. TRENDS AND ISSUES IN SPECIAL EDUCATION.** (3-3-0). Current trends and issues, and philosophical concepts in special education. Prerequisite: 5510 or consent of instructor.
- 5950. TEACHING INDIVIDUALS WITH BEHAVIOR DISORDERS AND THE EMOTIONALLY DISTURBED.** (3-3-0). Current literature.
- 5960. CONSULTING TEACHER STRATEGIES.** (3-3-0). Strategies for working with other school professionals. Skills and techniques to help handicapped children in the mainstream classroom. Prerequisite: 5510 or consent of instructor.
- 5970. PRINCIPLES OF DIAGNOSTIC PRESCRIPTIVE TEACHING.** (3-3-0). Formal and informal psychoeducational tests used with exceptional children; psychoeducational interpretation of these tests; use of the prescriptive teaching model based on the analysis of student needs. Prerequisite: 5510 or consent of instructor.
- 5980. THESIS.** (3-3-0). May be repeated for a maximum of six hours.

SPEECH (SPCH)

For Undergraduates Only

- 1010. FUNDAMENTALS OF SPEECH.** (3-3-0). Development of desirable habits for normal speech situations; effective use of voice, oral language, and bodily actions; basic principles of speech composition. Open to all students, prerequisite to other speech courses.
- 1210. ORAL INTERPRETATION.** (3-3-0). Analysis of literature for the purpose of oral reading as a performance mode; first principles of vocal technique and interpretation. Prerequisite: 1010.
- 2010. ADVANCED PUBLIC SPEAKING.** (3-3-0). For students who have had elementary work in public speaking and who desire experience in developing more extended public addresses. Preparation and delivery of extemporaneous speeches, including selection and arrangement of material, audience analysis, and techniques of effective delivery. Prerequisite: 1010.
- 2050. ARGUMENTATION AND DEBATE.** (3-3-0). Principles; phrasing, analyzing and proving the proposition; methods of proof; fallacies in logic; refutation; elements of persuasion; briefing, drawing, preparation of forensics; delivery; actual practice in debating.
- 2500. INTERPERSONAL COMMUNICATION.** (3-3-0). Theory and practice of one-to-one communication. Extensive practice in oral communicative techniques relative to effective speaking situations involving two-person and small group environments. Attention paid to techniques applicable to organizational communication formats.
- 3120. GROUP DYNAMICS.** (3-3-0). Principles, purposes, and types of discussional speaking; practice in informal discussion, round-table, panel, symposium, and assembly chairmanship.
- 3980. DEBATE PRACTICUM.** (3-0-10). Supervised activity on the University debate team. Can be counted for degree credit only once. Prerequisite: admission to debate team.

For Undergraduates and Graduates

- 4010. RHETORICAL ANALYSIS.** (3-3-0). Public address from classical times to the modern period in America and Europe. Speeches and speaking careers of outstanding statesmen, lawyers, and clergymen. Types of speech criticism and measures of effectiveness of public address.
- 4020. BUSINESS, EDUCATIONAL AND PROFESSIONAL SPEAKING.** (3-3-0). Advanced study, preparation and presentation of business and professional speeches; conference leadership and persuasive and informational presentations. Instructional presentations, policy speeches, speeches for special occasions, and the use of visual aids in explanation and demonstration. Prerequisite: 1010 or certificate to teach.
- 4030. RHETORICAL THEORY.** (3-3-0). Significant developments in rhetorical theory and practice in classical, medieval, and Renaissance periods as well as the modern period in Europe and America.

STATISTICS (STAT)

For Undergraduates and Graduates

- 4270. MATHEMATICAL STATISTICS I.** (3-3-0). Topics in probability; frequency distribution, expected values, moments; sampling distributions; point estimation. Prerequisite: Mathematics 3150.

For Graduates Only

- 5280. MATHEMATICAL STATISTICS II.** (3-3-0). The normal distribution with more than one variable; estimators and their properties; hypothesis testing; regression experimental design and analysis of variance. Prerequisite: 4270.

STUDENT PERSONNEL SERVICES (SPS)

For Undergraduates Only

- 1010. IDENTITY AND INTERPERSONAL SKILLS.** (3-3-0). This course is designed for students to engage in personal introspection, learn proactive interpersonal skills, and be challenged by peers through discussions and experiential activities. This course will assist students with development of a personal identity, adjustment to college, and effective interaction with individuals and groups representing different social, economic, and cultural backgrounds.

For Graduates Only

- 5500. INTRODUCTION TO STUDENT PERSONNEL SERVICES.** (3-3-0). Philosophy, concepts, and objectives of student personnel programs; services, materials, methods and personnel involved in carrying on a program.
- 5550. SUPERVISED EXPERIENCE/PRACTICUM.** (3-1-5). Supervised training opportunity to practice and demonstrate competency in the practical application and integration of principles and methods which have been studied in the training program (Same as Counseling 5550). Prerequisites: A grade of B or better must be earned in all prerequisite courses (Counseling 5000, 5530, 5540, or Student Personnel Services 5500, and Educational Psychology 5460 in order to be eligible to enroll in 5550).
- 5570. INTERNSHIP IN COLLEGE STUDENT PERSONNEL.** (3-1-20). Practice and training in a specific area for a minimum of six hours per week for one semester; basic experience in various services. Students meet once a week with faculty of the major area. Prerequisite: second year standing; program faculty permission. A grade of B or better in 5550.
- Subtitles:
- 01-housing.
 - 02-personnel.
 - 03-placement.
 - 04-student union activities.
 - 05-financial aid.
 - 06-counseling.
 - 07-records and admission.
 - 08-food services.
 - 09-orientation.
 - 10-veterans affairs.

- 11-properties and facilities.
 - 12-university classified personnel.
 - 13-student services.
 - 14-external affairs.
 - 15-research and development.
 - 16-continuing education.
- 5580. GROUP PROCESS.** (3-3-0). Principles and techniques of group procedures; interactions and roles played within groups; function of group counseling. Prerequisites: 5500, Counseling 5000, 5530, 5540, or consent of instructor. (Same as Counseling 5580).
- 5860. COUNSELING NEEDS AND ISSUES OF MEN.** (3-3-0). Overview of the men's movement with a focus on the socialization of men, men's issues, and strategies for counseling with men. Prerequisite: Counseling 5000 or consent of instructor. (Same as Counseling 5860).
- 5880. ADMINISTRATION AND PROGRAMMING IN UNIVERSITY RESIDENCE HALLS.** (3-3-0). Administration of university residence halls within a proactive educational philosophy. Focus on development of programming skills. Prerequisite: 5500.
- 5910. PERSONNEL ADMINISTRATION IN HIGHER EDUCATION.** (3-3-0) Methods of personnel supervision and evaluation; issues and trends in collective bargaining; and human resource development practices in higher education. Prerequisite: 5500.
- 5920. THE AMERICAN COLLEGE AND STUDENT.** (3-3-0). Seminar in needs of the young adult as a college student with reference to the college environment.
- 5930. ORGANIZATION AND ADMINISTRATION OF STUDENT PERSONNEL SERVICES IN HIGHER EDUCATION.** (3-3-0). Seminar in organization and administration of systems for providing student personnel services in higher education. Prerequisite: 5500
- 5940. SEMINAR IN STUDENT AFFAIRS AND HIGHER EDUCATION.** (3-3-0). Contemporary issues, trends, and research in student affairs. In-service activities will focus on professional ethics, standards, leadership, budgeting, compensation and benefits, campus environments and administration.
- 5960. LEGAL AND ETHICAL ISSUES IN STUDENT AFFAIRS AND COUNSELING.** (3-3-0). Legal ethical issues for student affairs administrators, college counselors, and private practitioners. Prerequisite: 5500.
- 5980. THESIS.** (3-0-3). Six hours maximum.

THEATRE (THEA)

For Undergraduates Only

- 1010. THEATRE PRACTICUM.** (1-0-4). Laboratory for skills in applied arts. Development of production techniques and participation in productions as crew and/or cast. May be repeated for credit. Up to four hours may be applied toward a degree. Open to all students.
- 2300. INTRODUCTION TO THEATRE ARTS.** (3-3-0). Theatre as an art; principles of dramatic production; observational experiences.
- 2310. STAGECRAFT I.** (3-1-4). Design and execution of basic scenic units; crew and shop organization; scene painting. Participation in University and/or laboratory production.
- 2320. ACTING TECHNIQUE I.** (3-1-4). The actor's media, sensory responsiveness, bodily movement; voice; practice in scene study. Prerequisite: 1010, Speech 1020.
- 2330. STAGECRAFT II.** (3-1-4). Rigging and handling scenery; design and execution of the floor plan; advanced painting techniques. Participation in University and/or laboratory production. Prerequisite: 2310.
- 2340. VOICE FOR THE ACTOR I.** (2-0-3). Principles of vocal production applied to development of characterization for the stage.
- 2350. VOICE FOR THE ACTOR II.** (2-0-3). Advanced principles of vocal production applied to development of characterization for the stage. Added emphasis on period style and specialized vocal patterns (dialects).
- 2360. DRAMATIC LITERATURE I (GREEKS-17TH CENTURY).** (3-3-0). Reading and critical examination of selected major dramatic works from early Greece through the period of the late 1500's prior to Shakespeare in England.
- 2370. DRAFTING FOR THEATRE.** (3-3-0). Understanding and creating theatre drafting; including floor plans, elevations, working drawings, sections and perspectives.
- 2380. STAGE AND COMBAT.** (3-3-0). Study of stage combat and violence. Techniques involving Rapier and Dagger, Quarterstaff, and Unarmed Combat.

3010. **THEATRE PRACTICUM.** (1-0-4). Applied arts. Refinement of production techniques and participation as crew supervisor, designer, or in major role. May be repeated for credit. Up to four hours may be applied to a degree.
3120. **STAGE MANAGEMENT.** (3-1-4). Factors of play selection, casting, rehearsal procedures. Scene rehearsal and the construction of the director's production book. Understanding the role of the director and stage manager. Examine the duties and responsibilities of the theatrical stage manager. Prerequisite: junior in the curriculum.
3220. **DIRECTING FOR STAGE AND TELEVISION.** (3-1-4). Staging of short productions. Duties and roles of the director and stage manager. Assignment to these functions in University stage and television productions. Prerequisite: 3120.
3300. **SUMMER THEATRE WORKSHOP.** (3-3-0). Training and experience in all phases of theatrical production; problems in acting and staging; public performance of full-length plays; experimental production of one-act plays. Prerequisite: consent of the director.
3320. **ACTING TECHNIQUE II.** (3-1-4). Character roles and styles of acting; public performances. Prerequisite: 2320 or equivalent.
3330. **LIGHTING FOR THE STAGE AND TELEVISION.** (3-1-3). Elementary principles of illumination, control media, instrumentation. Practice in University and laboratory productions and/or programs servicing University functions. Prerequisite: 2310 or consent of instructor.
3340. **COSTUMING FOR STAGE AND TELEVISION.** (3-1-4). Basic costume design; construction of costumes for University and laboratory productions. Prerequisite: Home Economics 1010 or 2030, Art 1060 and/or consent of instructor.
3350. **MAKE-UP FOR STAGE AND TELEVISION.** (3-1-4). Theory and practice of make-up for the stage and television. Character analysis make-up design and use of prosthetics. Participation in performance productions.
3360. **ADVANCED COSTUMING.** (3-1-4). Design and execution of stage costumes, pattern making and adaptation. Participation on costume crew for University and/or laboratory production. Prerequisite: 3340 or consent of instructor.
3370. **HISTORY OF THE THEATRE.** (3-3-0). Origins of drama; evolution of the plant and staging practices from primitive drama through the English Restoration.
3380. **DRAMATIC LITERATURE II (17TH CENTURY-1900).** (3-3-0). Reading and critical examination of selected major dramatic works from the early 17th century to 1900 and the early development of Realism.
3390. **SOUND REINFORCEMENT AND RECORDING.** (3-1-4). Fundamental electronic and acoustic principles of sound reinforcement and audio/video recording. Techniques of sound engineering, systems and equipment. Psychoacoustic research and application to the stage and studio environment.
3410. **COSTUME CRAFTS.** (3-3-0). Costume construction elements outside of garment-making; crafts as a design tool will be explored through fabric dying/painting, jewelry, masks, shoe and boot construction and millinery.
4250. **AUDITIONS.** (3-1-4). Specialized techniques necessary for actors to relate to the auditioning process including building an appropriate repertory of material, preparing a resume and picture, and developing an audition "persona". Prerequisite: two performance courses or consent of instructor.
4260. **SPECIAL PROBLEMS – THEATRE LITERATURE.** (3-3-0). A periodic "Figures" course, allowing for a more intensive study of the major contributions to dramatic literature by specific playwrights.
4350. **MUSICAL THEATRE LITERATURE.** (3-3-0). Readings and listenings in musical from "The Black Crook" and early operetta through the current scene on Broadway and in the West End of London.
4360. **THE BUSINESS OF THEATRE.** (1-0-4). Practical problems of working in the: resumes, union affiliations, use of theatrical agents, portfolio preparation and additional professional training.
4440. **SCENE PAINTING.** (3-3-0). Practical analysis and application of scene painting skills; materials (paints, dyes, fabrics) and equipment. Prerequisite: 2310.
4450. **THEATRICAL RENDERING.** (3-3-0). Techniques employed in sketching and preparing drawings for scenic and costume designs for the theatre.
4980. **SENIOR THESIS.** (3-0-0). Major directing or design project and formal correlative paper. The project is to be staged for public presentation. Required of the major. Prerequisite: senior standing in the curriculum.

¹ No more than nine hours of 3300 may apply toward a degree.

For Undergraduates and Graduates

- 4220. ADVANCED ACTING.** (3-1-4). Major acting theories and practices. Styles and techniques of the avant garde. Prerequisite: 2320, 3320, Dance 3060.
- 4240. ACTING SHAKESPEARE.** (3-1-4). Theory and practice for analysis and performance of Shakespearean text. Elizabethan acting style and technique and contemporary approaches will be demonstrated in acting monologues and scenes. Prerequisite: 2320, 3320 and/or 4220 or consent of instructor.
- 4300. PLAY WRITING.** (3-3-0). Dramatic forms, creative writing and presentation of original plays.
- 4310. SCENE DESIGN FOR STAGE AND TELEVISION.** (3-1-4). Principles of stage picturization; creating the stage environment for dramatic literature, the rear elevation; rendering the design cartoon; model building. Prerequisite: 2330, Art 1070 or consent of instructor.
- 4330. MODERN DRAMA.** (3-3-0). Modern European and American dramatic literature from Ibsen and the emergence of Realism to the advent of Absurdism.
- 4340. CONTEMPORARY DRAMA.** (3-3-0). Literature of the contemporary : trends from the roots of Absurdism in France through the Avant-Garde on a world scale; immediate scene in the United States and abroad. Prerequisite: 2360, 3380 or 4330.
- 4370. HISTORY OF THE MODERN THEATRE.** (3-3-0). The growth of theatre arts from the 17th century to the present.
- 4380. THE AMERICAN STAGE.** (3-3-0). The development of enterprise in the U.S. from the 18th century to the present. movement westward, the frontier, the New Orleans, the community, contemporary resident's.
- 4390. THEATRE MANAGEMENT.** (3-2-2). Principles and practices of producing for the commercial, stock, resident, college and community . House and box office management, public relations, and program development. Prerequisite: 3120.
- 4420. COSTUME DESIGN FOR STAGE AND TELEVISION.** (3-1-4). The design of garments adapted for historical periods and contemporary styles. Prerequisite: 3360 or consent of instructor.
- 4430. LIGHTING DESIGN FOR STAGE AND TELEVISION.** (3-1-4). Principles of the light plot, relation of light and color to scene design. Advanced principles of contemporary control instrumentation. Practice in University and laboratory production and/or programs servicing various University functions. Prerequisite: 3330 or consent of instructor.
- 4520. THEORY AND CRITICISM.** (3-3-0). Aspects of various forms of dramatic production, their historical significance and relation to allied arts of music, dance, and design; basic concepts involved in dramatic criticism. Prerequisite: consent of instructor.
- 4530. AMERICAN FILM GENRE.** (3-3-0). Theories of the evolution of the motion-picture. Development of creative and critical response to details of symbols, images, social contexts, and historical development of genre films. Prerequisite: junior standing.
- 4950. UNITED STATES CENTERS.** (1 to 6-0-0). Study tours of selected centers of theatrical activity in the U.S.
- 4960. FOREIGN CENTERS.** (1 to 6-0-0). Study tours of selected centers of theatrical activity abroad.

For Graduates Only

- 5300. SUMMER WORKSHOP.** (3 to 9-0-0). Supervision of production activities, practicum in organization, planning and execution of crew work; acting and directing in Summer Repertory Company. Prerequisite: 18 hours of courses or consent of director.
- 5320. DIRECTING EDUCATIONAL THEATRE.** (3-3-0). Methods of supervising dramatic activities in elementary and secondary schools; organization of dramatic clubs, directing school plays, equipment of school stages. Prerequisite: Education 4020 or 4040 or teaching experience.
- 5950. SPECIAL PROBLEMS.** (1 to 6-0-0).

¹ No more than nine hours of 5300 may apply toward a degree.

VETERINARY TECHNOLOGY (VTEC)

For Undergraduates Only

- 1010. INTRODUCTORY VETERINARY TECHNOLOGY I.** (2-2-0). General animal breeds, animal restraints, laboratory techniques and procedures, physical examination of the animal, public relations, and ethics and jurisprudence.
- 1011. INTRODUCTORY VETERINARY TECHNOLOGY I LABORATORY.** (1-0-2) Prerequisite: registration in or credit for 1010.

- 1020. MEDICAL TERMINOLOGY.** (2-2-0). Breaking down and defining common medical terms used in effective communication. Same as Allied Health 1020.
- 1030. INTRODUCTORY VETERINARY TECHNOLOGY II.** (2-2-0). Anesthesiology, hospital management, pharmacology, parasitology, radiology, hematology, urology, nutrition, anatomy, physiology, and office administration. Prerequisite: 1010-1011.
- 1031. INTRODUCTORY VETERINARY TECHNOLOGY II LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 1030.
- 2060. PHARMACOLOGICAL CALCULATIONS.** (1-1-0). General mathematics used by medical personnel involved in calculating dosages on common drugs, reading drug orders and labels, intravenous flow rates, and systems of measure. Prerequisite: Mathematics 1050, 1060.
- 2090. VETERINARY ANATOMY AND PHYSIOLOGY.** (2-2-0). Gross anatomy of domestic animals; how each organ system functions. Prerequisite: registration in or credit for 2091, Biology 1020-1021; or consent of instructor.
- 2091. VETERINARY ANATOMY AND PHYSIOLOGY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 2090.
- 2100. GENERAL VETERINARY PARASITOLOGY.** (2-3-0). Ecto- and endoparasites of animals; parasites of public health importance; control measures Prerequisite: registration in or credit for 2101; Biology 1010-1011, 1020-1021.
- 2101. GENERAL VETERINARY PARASITOLOGY LABORATORY.** (2-0-2). Prerequisite: registration in or credit for 2100.
- 2190. VETERINARY HOSPITAL TECHNOLOGY I.** (2-2-0). Theory and techniques of hematology, urology, serology, cytology, and bacteriology. Prerequisite: registration in or credit for 2191; Biology 1020-1021.
- 2191. VETERINARY HOSPITAL TECHNOLOGY I LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 2190.
- 2200. VETERINARY HOSPITAL TECHNOLOGY II.** (2-2-0). Applied pharmacology, anesthesiology and surgical nursing. Pre- and post-operative care of animals. Prerequisite: 2190-2191, registration in or credit for 2201.
- 2201. VETERINARY HOSPITAL TECHNOLOGY II LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 2200.
- 2300. PEDIATRICS AND GERIATRICS.** (2-2-0). Special needs of the newborn and geriatric cases. Medical and surgical care, techniques in handling; behavioral problems. Prerequisite: 2200-2201.
- 2400. THERIOGENOLOGY.** (3-3-0). Veterinary obstetrics and genital diseases. Prerequisite: approval of the instructor.
- 2600. ANIMAL CARE AND HEALTH.** (2-2-0). Basic nutrition of animals; kennel sanitation and maintenance; emergency situations; herd health.
- 2700. RADIOLOGY.** (2-2-0). Theory and application of radiologic principles. Prerequisite: registration in or credit for 2701.
- 2701. RADIOLOGY LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 2700.
- 2900. VETERINARY TECHNOLOGY INTERNSHIP.** (12-0-0). Laboratory 40 hours per week. One semester of clinical training under the supervision of a doctor of veterinary medicine approved by the Department of Life Science. Unless otherwise approved by the Department, clinical training must take place at Louisiana State University School of Veterinary Medicine Teaching Hospital and Clinics in Baton Rouge, Louisiana. Students should complete 2190-2191, 2200-2201 within one year prior to registering for 2900 or have consent of the Department.
- 3010. DISEASES OF ANIMALS.** (3-3-0). Major diseases of the equine and companion animals including pathophysiology, etiology, and prevention. Prerequisite: approval of instructor.
- 3040. DISEASES OF FARM ANIMALS.** (3-3-0). Causative agents, prevention, diagnosis and treatment. Prerequisite: 2090-2091, Agriculture 1040; or consent of instructor.

ZOOLOGY (ZOO)

For Undergraduates Only

- 1220. HUMAN ANATOMY.** (3-3-0). Gross structure of the human body; clinical aspects. Prerequisite: registration in or credit for 1221.
- 1221. HUMAN ANATOMY LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 1220.
- 1230. HUMAN PHYSIOLOGY.** (3-3-0). Function of the principal organ systems of the human body and their relationship to maintenance of homeostasis. Prerequisite: registration in or credit for 1220.

1231. **HUMAN PHYSIOLOGY LABORATORY.** (1-0-2). Prerequisite: registration in or credit for 1230.
2000. **INTRODUCTION TO MARINE ZOOLOGY.** (4-4-0). Survey of marine animals particularly those of the Louisiana Gulf Coast, including classification, morphology, physiology and ecology. Prerequisites: eight semester hours of biology. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
2050. **INVERTEBRATE ZOOLOGY.** (2-2-0). Morphology, taxonomy, physiology, life history, evolution, ecology, and economic importance of the major invertebrate phyla. Prerequisites: registration in or credit for 2051; Biology 1020-1021.
2051. **INVERTEBRATE ZOOLOGY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 2050. F.
2060. **COMPARATIVE ANATOMY.** (2-2-0). The vertebrate systems, morphology, taxonomy, and evolution of the chordate groups; comparative dissections of dogfish, necturus and cat. Prerequisites: registration in or credit for 2061; Biology 1020-1021.
2061. **COMPARATIVE ANATOMY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 2060.
2100. **INTRODUCTION TO MARINE SCIENCE.** (4-4-0). Introduction to physical, chemical, geological and biological processes in the oceans and coastal environments and their interactions; interrelations of man and the marine environment. Prerequisites: Introductory science course. Offered summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
2290. **INTRODUCTION TO WILDLIFE AND FISHERIES MANAGEMENT.** (3-3-0). Survey of wildlife populations including ecology and management principles. Emphasis on resident wildlife of the South including white-tailed deer, wild turkey, rabbits, tree squirrels, bob-white quail, alligators, and other game, non-game, exotic and endangered species and predators. Survey of fish populations including biology and management principles. Emphasis on resident warm-water fish and coastal anadromous species management to include largemouth bass, striped and hybrid striped bass, sunfish, crappie, catfish, and other species of interest. Pond and reservoir management will be addressed as well as commercial fisheries and aquaculture. Management of organisms, habitats, and human users will be examined from an ecological and sociological perspective.
3220. **WILDLIFE MANAGEMENT AND TECHNIQUES.** (3-3-0). Methods and principles of studying animal populations; population growth, movements, measurements and modeling; habitat management and alteration; legislation and wildlife management; administration and planning; management applications to big game, small mammals, waterfowl, shore and upland birds, non-game, endangered and exotic species; animal damage and impacts. Prerequisites: registration in or credit for 3221; Biology 1020-1021.
3221. **WILDLIFE MANAGEMENT AND TECHNIQUES LABORATORY.** (1-0-3). Use of literature to include data bases; research methods; population dynamics; control of animal populations; values of regulations, refuge system, artificial propagation, predator control and habitat improvement; trapping, tagging, marking, telemetry procedures; restoration, restocking and hacking programs; field trips to area wildlife management agencies at federal, state, and private levels. Three-day weekend trip to an area such as Rockefeller Wildlife Refuge is required. Prerequisite: Registration in or credit for 3220.
4920. **SPECIAL PROBLEMS IN MARINE SCIENCE.** (1 to 4-0-0). Directed undergraduate research and study at a coastal laboratory of the Louisiana Universities Marine Consortium. By arrangement.
- ¹4950. **ZOOLOGICAL PROBLEMS.** (1 to 4-0-0). Individual research on some zoological problem not within the scope of regularly scheduled courses; conferences with instructor as needed; procedures, results, and conclusions presented in the form of a research paper. Prerequisites: junior standing; consent of department head and proposed research director. Areas of concentration are identified as follows:
 - 01-anatomy
 - 02-behavior
 - 03-parasitology
 - 04-development
 - 05-entomology
 - 06-fish
 - 07-genetics
 - 08-invertebrate zoology
 - 09-limnology

- 10-mammalogy
- 11-ornithology
- 12-physiology
- 13-microtechnique
- 14-herpetology
- 15-wildlife.

4960. WILDLIFE MANAGEMENT PRACTICUM. (2-0-0). Work experience with federal, state or private industry concerned with management of natural resources. Required of all wildlife majors and coordinated through departmental faculty and cooperating agency. Written report. Prerequisite: consent of departmental faculty.

¹ This course may be repeated any number of times. No more than six hours may be applied toward the M.S. degree.

For Undergraduates and Graduates

- 3040. ORNITHOLOGY.** (2-2-0). Techniques of bird study; adaptive significance and evolution of bird behavior, ecology, physiology and morphology; field identification and natural histories of Louisiana species. Prerequisite: registration in or credit for 3041; Biology 1020-1021.
- 3041. ORNITHOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 3040.
- 3140. HERPETOLOGY.** (2-2-0). Classification, structure, evolution, natural history, and distribution of amphibians and reptiles. Laboratory emphasis on Louisiana forms. Collection required. Prerequisites: registration in or credit for 3141; 2060-2061 or consent of instructor.
- 3141. HERPETOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 3140.
- 3170. HISTOLOGY.** (2-2-0). Cytology and microanatomy of animal tissues, principally mammalian. Prerequisites: registration in or credit for 3171; 2060-2061; Biology 1020-1021.
- 3171. HISTOLOGY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 3170.
- 3340. ANIMAL BEHAVIOR.** (3-3-0). Perception of the external world; orientation; motivation; social behavior; communication. Prerequisites: Biology 1020-1021; junior standing.
- 3361. ANIMAL BEHAVIOR LABORATORY.** (1-0-3). Experiments designed to illustrate the principles of animal behavior; communication. Prerequisites: Biology 1020-1021; or consent of instructor; junior standing.
- 4000. MARINE ECOLOGY.** (4-4-0). Relationships of marine and estuarine organisms to environmental factors; interactions among organisms; ecological process of energy and materials flow; communities and ecosystems of the Louisiana coastal zone. Prerequisites: general biology, invertebrate or vertebrate zoology, introductory chemistry. Summer only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 4010. MARINE INVERTEBRATE ZOOLOGY.** (4-4-0). General study of the classification, structure, function and ecology of marine and estuarine invertebrates, emphasizing those of the Louisiana Gulf Coast. Prerequisites: eight semester hours of zoology. Offered summers only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 4020. MARINE VERTEBRATE ZOOLOGY.** (4-4-0). General study of the marine chordates with particular emphasis on the fishes, including classification, structure, function and ecology. Prerequisites: sixteen semester hours of zoology. Offered summers only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 4030. MARINE SCIENCE FOR TEACHERS.** (4-4-0). Survey of the marine sciences, techniques for the teaching of marine science at secondary and elementary school levels. Credit can be applied only to degrees in education. Offered summers only. Five weeks at a Louisiana Universities Marine Consortium coastal laboratory.
- 4040. MAMMALOLOGY.** (3-3-0). Behavior, ecology, physiology, morphology, evolution and zoogeography of mammals; taxonomy of mammals of the world; techniques of mammal study; identification of Louisiana species. Prerequisites: registration in or credit for 4041; Biology 1020-1021.
- 4041. MAMMALOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 4040.
- 4050. EMBRYOLOGY.** (2-2-0). Early developmental stages of various animals and later development of the chick and mammals. Prerequisites: registration in or credit for 4051; Biology 1020-1021.
- 4051. EMBRYOLOGY LABORATORY.** (2-0-4). Prerequisite: registration in or credit for 4050.
- 4170. LIMNOLOGY-AQUATIC BIOLOGY.** (2-2-0). Physical, chemical and biological properties of inland waters. Prerequisites: registration in or credit for 4171; Biology 1020-1021; six hours of chemistry.
- 4171. LIMNOLOGY-AQUATIC BIOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 4170.

- 4180. BIOLOGY OF FISHES.** (2-2-0). Taxonomy, anatomy, physiology, evolution life history and ecology of fresh-water fishes. Prerequisites: registration in or credit for 4181; 2060-2061, or consent of instructor.
- 4181. BIOLOGY OF FISHES LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 4180.
- 4210. COMPARATIVE VERTEBRATE PHYSIOLOGY.** (3-3-0). Comparison of the physiological adaptation of various vertebrate groups to their environment. Water balance, body temperature and energy metabolism, respiration, circulation, sensory and nervous systems. Prerequisites: registration in or credit for 4211; 1220-1221 or 2060-2061; junior standing; organic chemistry recommended.
- 4211. COMPARATIVE VERTEBRATE PHYSIOLOGY LABORATORY.** (1-0-3). Prerequisite: registration in or credit for 4210.
- 4300. MIGRATORY WILDLIFE RESOURCES.** (2-2-0). Ecology and management of doves, waterfowl and marsh birds; marsh ecology. One or two weekend field trips to waterfowl refuges and management areas required. Prerequisites: 3190-3191 and one course in field biology.

For Graduates Only

- 5230. ADVANCED HUMAN PHYSIOLOGY** (3-3-0). Physiological processes involved in homeostatic mechanisms of man.

BOARD OF REGENTS

Officers of the Board

E. JOSEPH SAVOIE, <i>Commissioner of Higher Education</i>	Lafayette
HAROLD CALLAIS, <i>Chairman</i>	Golden Meadow
MARY ELLA SANDERS, <i>Vice Chairman</i>	Covington
RICHARD D'AQUIN, <i>Secretary</i>	Lafayette

E. EDWARDS BARHAM	Oak Ridge
MICHAEL DEES.....	Lake Charles
REGGIE DUPRE	Lafayette
JOHN D. GEORGES	New Orleans
FRANCES T. HENRY	Baton Rouge
JOHN F. KELLER.....	New Orleans
GEORGE L. LUFFEY	Monroe
MICHAEL D. REESE	Monroe
WILLIAM T. ROBERTS, JR.....	Shreveport
NORBERT SIMMONS	New Orleans
PAT A.STRONG	Franklin
ROLAND M. TOUPS	Baton Rouge

UNIVERSITY OF LOUISIANA SYSTEM
BOARD OF TRUSTEES

Officers of the Board

CARL SHETLER, *Chairman* Lake Charles
ANDRE G. COUDRAIN,*Vice Chairman* Hammond

EDWARD B. ANDERS.....Natchitoches
ELSIE P. BURKHALTER SlideII
T. L. "TEDDY" DUHE' Houma
HERMAN GESSER, JR.....New Iberia
VERA E. LeBRUN Lake Charles
CLYDE L. OLIVER.....Bernice
HELEN R. ROBERTS Baton Rouge
WINFRED F. SIBILLE Sunset
EUNICE WICKER-SMITH.....New Orleans
CARROLL W. SUGGS.....Metairie
MICHAEL H. WOODS.....Shreveport

JAMES CAILLIER, *System President*
CARROLL FALCON, *System Vice President for Academic Affairs*
DAVE NICKLAS, *Vice President for Finance and Administration*

ADMINISTRATION OF THE UNIVERSITY

RANDALL J. WEBB, Ed.D.	President
THOMAS BURNS, Ph.D.	Provost and Vice President for Academic Affairs
R. CARL JONES, M.B.A.	Vice President for Business Affairs and Controller
JERRY D. PIERCE, B.A.	Vice President for External Affairs
FRED FULTON, M.S.	Vice President for Student Affairs
JOHN E. WINSTON, M.S.Ed.	Vice President for University Affairs
VIRGINIA CROSSNO, Ed.D.	Director of University Planning, Assessment, and EEO
BARRY SMILEY, D.B.A.	Dean of Business
JOHN TOLLETT, Ed.D.	Acting Dean of Education
SUE W. WEAVER, Ph.D.	Dean of General College
DONALD W. HATLEY, Ph.D.	Dean of Liberal Arts and Director, Louisiana Folklife Center
NORANN PLANCHOCK, Ph.D.	Dean of Nursing
AUSTIN L. TEMPLE, Ph.D.	Dean of Science and Technology
THOMAS HANSON, Ph.D.	Dean of Graduate Studies and Research
MARGARET COCHRAN, Ph.D.	Acting Director of Scholar's College
LILLIE BELL, B.A.	Acting Registrar
MARSHA ZULICK, B.A.	Executive Director, CENLA Programs
CREIGHTON C. OWEN, M.Ed.	Executive Director, Northwestern State University at Fort Polk
CHRISTOPHER MAGGIO, M.Ed.	Director, Enrollment Services
FRANCIS CONINE, M.A.	Director, Center for Career Planning and Placement
STEPHEN H. REID, B.S.	Director, Computer Center
DAN CARR, Ed.D.	Director, Institutional Research
ADA D. JARRED, Ph.D.	Director, University Libraries
LORAN LINDSEY, B.S.	Director, Physical Plant Planning, Development and Maintenance
CECIL KNOTTS, M.A.	Director, Human Resources
MARY LYNN WILKERSON, M.B.A.	Director, Small Business Development Center
E. H. GILSON, JR., M.A.	Director, Student Financial Aid
BARBARA GILLIS, M.Ed.	Director, Testing Center
RICKIE WILLIAMS, B.S.	Chief of University Police
ELISE JAMES, M.S.Ed.	Coordinator, Alumni Affairs
ALVIN BROSETTE, JR., Ed.D.	Director of Continuing Education
DAN SEYMOUR, Ph.D.	Executive Director, Academic and Student Services/Shreveport Campus

ACADEMIC DEPARTMENT HEADS

DICK STALLING, Ph.D.	Coordinator of Biological Sciences
H. WAYNE HYDE, Ph.D.	Coordinator of Chemistry and Physics
WILLIAM E. BRENT, M.M.	Creative and Performing Arts
PATRICIA PIERSON, M.S.	Family and Consumer Sciences
C. NEWTON WILKES, Ed.D.	Health and Human Performance
WILLIAM H. DENNIS, Ph.D.	Coordinator of Industrial Technology
RONALD McBRIDE, Ph.D.	Journalism
GARRY ROSS, Ph.D.	Language and Communication
BEN H. RUSHING, Ph.D.	Coordinator of Mathematics
JAMES D. BULGER (LTC), B.S.	Military Science
TERRY ISBELL, Ph.D.	Psychology
KATHLEEN BYRD, Ph.D.	Social Science

INTERCOLLEGIATE ATHLETICS

GREG BURKE, M.S.	Director, Athletics
DOUG IRELAND, B.A.	Director, Sports Information
J. D. BARNETT, M.S.Ed.	Head Coach, Men's Basketball
DAVE VAN HORN, M.S.	Head Coach, Baseball
SAM GOODWIN, M.S.	Head Coach, Football
LEON JOHNSON, M.Ed.	Head Coach, Track and Cross Country
JAMES SMITH, M.S.	Head Coach, Women's Basketball and Volleyball
R. GAY MCNUTT, B.S.	Head Coach, Women's Softball
EDWARD EVANS, M.S.	Athletic Trainer

FACULTY

ABNEY, LISA	Assistant Professor of English
M.A., Texas A&M University	
ABY, CARROLL	Professor of Business
Ph.D., Louisiana State Univ.	
ADAMS, GEORGE	Associate Professor of Music
D.M.A., University of Texas	
AHRENS, SARAH K	Instructor of Reading, Language and Communication
B.S., Louisiana State Univ.	
AICHINGER, ALEXIS A.	Assistant Professor of Political Science
Ph.D., Georgetown Univ.	
AIRHART, ARLENE	Professor of Nursing
Ph.D., Texas Woman's Univ.	
ALLEN, ARTHUR S.	Professor of Biology
Ph.D., Michigan State Univ.	
ALLEN, BURT M.	Professor of Music;
D.M.A., Univ. of Kansas	Director of Choral Activities
ALLEN, CHRISTINE	Instructor of Piano
M.M., NSU	
ALLEN, JERRY L.	Professor of Microbiology
Ph.D., Louisiana State Univ.	
ARMOUR, ROBERT W.	Instructor of Aviation Science
B.S., NSU	
AUTREY, KATHY	Instructor of Mathematics
M.B.A., NSU	
BACDAYAN, ANDREW W.	Professor of Business
Ph.D., Utah State Univ.	
BACHNAK, RAY	Associate Professor of Industrial Technology
Ph.D., Ohio Univ.	
BARBER, JOHN	Assistant Professor of English
Ph.D., Indiana Univ. of Pennsylvania	
BARNETT, BEVERLY	Assistant Professor of Nursing
M.S. in Nursing, NSU	
BARNETT, SUSAN	Instructor of Psychology
M.S., Wynonna State College	
BARNETT, WILLIAM	Assistant Professor of Business
M.S., Univ. of Texas	
BARRON, BENNIE G.	Professor of Education
Ed.D., Univ. of Southern Mississippi	
BARRON, CAROLYN	Instructor of Education
M.Ed., NSU	
BATES, MARK C.	Assistant Professor of Biology
Ph.D., Louisiana State Univ.	
BEARD, NANCY	Assistant Professor of Nursing
M.S., Univ. of Southern Mississippi	
BECHTEL, TERRY W.	Assistant Professor of Business
Ph.D., Univ. of Oklahoma	
BENEDICT, JOAN	Director of CENLA Laboratory School and
Ph.D., Louisiana State Univ.	Assistant Professor
BETHEA, URSULA	Assistant Professor of Nursing
M.S. in Nursing, Medical Univ. of South Carolina	

BITOWSKI, BILLIE E.	Associate Professor of Nursing
M.S. in Nursing, Texas Woman's Univ.	
BONNER, CATHERINE J.	Instructor of English
M.Ed., Louisiana Tech Univ.	
BONNETTE, ALLEN R.	Professor of Health, Physical Education and Recreation
Ed.D., Louisiana State Univ.	
BOWMAN, ROBERT	Associate Professor of Education
Ph.D., Purdue Univ.	
BOWMAN, VICKI	Associate Professor of Education
Ph.D., Purdue Univ.	
BOYETTE, ALEXA	Instructor in Social Work
M.S.W., Louisiana State Univ.	
BRAUDAWAY, MALCOLM CURTIS	Associate Professor of Social Work
M.S.W., Univ. of Arkansas	
BRAZO, ED	Assistant Professor of Dance
M.A., Northeast Louisiana Univ.	
BRENT, WILLIAM E.	Associate Professor of Music;
M.M., Univ. of Texas	Head, Department of Creative and Performing Arts
BRISCOE, NAT R.	Associate Professor of Business
Ph.D., Florida State Univ.	
BRYANT, BILLY J.	Professor of Art
D.Ed., Pennsylvania State Univ.	
BULGER, JAMES D.	Department Head; Professor of Military Science
M.B.A., Oklahoma City Univ.	
BULLOCK, BRUCE LOYD	Professor of Music
D.M.A., North Texas State Univ.	
BURNS, THOMAS A.	Professor of Biology;
Ph.D., Arizona State Univ	Provost and Vice President for Academic Affairs
BURROUGHS, SARA A.	Professor of English
Ph.D., Univ. of Oklahoma	
BYRD, KATHLEEN	Professor of Anthropology,
Ph.D., Univ. of Florida	Head, Department of Social Sciences
BYRD, SHERLYNN	Assistant Professor of Journalism
Ed.S., NSU	
CAMERON, NEILL D.	Associate Professor of English
M.A., East Texas State Univ.	
CARR, DAN B.	Professor of Education
Ed.D., Univ. of Mississippi	
CARTER, LOUVENIA M.	Associate Professor of Nursing
Ph.D. in Nursing, Texas Woman's Univ.	
CARWILE, LAURA	Clinical Instructor of Radiologic Technology
B.S., McNeese State Univ.	
CASHIO, SHIRLEY J.	Associate Professor of Nursing
M.S. in Nursing, NSU	
CEBROWSKI, CATHARINE	Assistant Professor in the Library
M.L.I.S., Louisiana State Univ.	
CHADICK, KATHLEEN	Instructor of Mathematics
M.A., Louisiana State Univ.	
CHADICK, STAN R.	Professor of Mathematics
Ph.D., Univ. of Tennessee	
CHEEK, JANE N.	Associate Professor of Nursing
M.S. in Nursing, NSU	

CHRISTENSEN, PAULA	Assistant Professor of Education
Ph.D. Univ. of Iowa	
CLARK, DEBRA	Assistant Professor of Nursing
M.S. in Nursing, NSU	
COATS, DARYL R.	Associate Professor of English
Ph.D., Univ. of Mississippi	
COLAVITO, JOSEPH	Assistant Professor of English
Ph.D., Univ. of Arizona	
CONKLIN, GEORGE	Assistant Professor of History
Ph. D., Univ. of North Carolina at Chapel Hill	
COOK, SALLY	Professor of Nursing
Ph.D., Texas Woman's Univ.	
COOLEY, C. GLEN	Associate Professor of Business
Ph.D., North Texas State Univ.	
COREIL, KRISTINE	Assistant Professor of Music
M.M., Northwestern Univ.	
COVINGTON, THOMAS E.	Associate Professor of Mathematics
M.A., Louisiana State Univ.	
COX, LINDA	Assistant Professor in the Library
M.L.S., Louisiana State Univ.	
CREIGHTON, WALTER H.	Professor of Business
Ph.D., Colorado State Univ.	
CROSSNO, VIRGINIA LEE.	Professor of Home Economics and
Ed.D., Oklahoma State Univ.	Director of University Planning Assessment, and EEO
CURRY, NANCY	Assistant Professor of Nursing
M.S. in Nursing, NSU	
DARBY, JUANITA	Instructor of Computer Information Systems
M.S., McNeese State Univ.	
DARFUS, JANET M.	Assistant Professor of Nursing
M.S. in Nursing, Univ. of South Alabama	
DAVIS, LAWRENCE	Instructor of Mathematics
Ph.D., Louisiana State Univ.	
DECKER, CELIA A.	Professor of Home Economics
Ed.D., Univ. of Arkansas	
DENNIS, MARCIA SANDRA	Assistant Professor of Nursing
M.S. in Nursing, Univ. of Texas	
DENNIS, WILLIAM H.	Professor of Industrial Technology;
Ph.D., Southern Illinois Univ.	Coordinator, Industrial Technology Department
DESHOTELS, ANN	Assistant Professor of Nursing
M.S. in Nursing, NSU	
DeVAULT, RICHARD	Assistant Professor of Mathematics
Ph.D., Univ. of Rhode Island	
DICKENS, WILLIAM I	Professor of Health, Physical
Ed.D., Louisiana State Univ.	Education and Recreation
DOCKENDORF, NOREEN	Assistant Professor of Nursing
M.S. Nursing, NSU	
DOWNS, CLYDE	Assistant Professor of Art
M.F.A., Stephen F. Austin State Univ.	
DOYLE, MICHAEL C.	Assistant Professor of Military Science
B.A., Wright State Univ.	
DUCHARDT, BARBARA	Assistant Professor of Education
Ph.D., Univ. of Kansas	

DURLABHJI, SUBHASH.....	<i>Professor of Business</i>
Ph.D., Michigan State Univ.	
EIDENMULLER, MICHAEL.....	<i>Assistant Professor of Speech</i>
M.A., Florida State Univ.	
ELLIOTT, ROBERT S.	<i>Associate Professor of Business</i>
Ph.D., Louisiana Tech Univ.	
EPPLER, THOMAS L.	<i>Professor of Industrial Technology</i>
Ed.D., Colorado State College	
ERATH, JEROME	<i>Instructor of English</i>
M.A., NSU	
EVANS, MICHAEL	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, NSU	
FAULK, NANCY.....	<i>Assistant Professor of Nursing</i>
Ph.D., Cornerstone Univ.	
FELDT, TINA M.	<i>Instructor in Social Work</i>
M.S.W., Louisiana State Univ.	
FIFE, ELIZABETH.....	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, NSU	
FITTS, CHARLES	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, NSU	
FORD, CHRISTINE.....	<i>Professor of English</i>
Ph.D., East Texas State Univ.	
FORD, SHELLY	<i>Assistant Professor of Theatre</i>
M.F.A., Univ. of Memphis	
FOSTER, JOHN	<i>Instructor of Speech</i>
M.R.E., Texas Christian Univ.	
FOSTER, SHARON.....	<i>Assistant Professor of Creative and Performing Arts</i>
MFA, Univ. of North Carolina	
FULLER, FRANK	<i>Assistant Professor of Education</i>
Ph.D., North Texas State Univ.	
FUSILIER, MARCELLINE R.	<i>Associate Professor of Business</i>
Ph.D., Purdue Univ.	
GALMINAS, LISA R.....	<i>Assistant Professor of Mathematics</i>
Ph.D., University of Wisconsin at Madison	
GENTRY, ROY B., JR.....	<i>Professor of Health,</i>
Ph.D., Florida State Univ.	<i>Physical Education and Recreation</i>
GENTRY, VICKIE	<i>Associate Professor of Health</i>
Ph.D., Texas A & M Univ.	<i>and Human Performance</i>
GILLAN, ROBERT E.....	<i>Associate Professor of Education</i>
Ed.D., NSU	
GOGGAN, RAYMOND P.	<i>Instructor in English</i>
M.A., Stephen F. Austin Univ.	
GORSKI, WILLIAM.....	<i>Assistant Professor of English</i>
Ph.D., Univ. of Maryland	
GOWDA, NATARAJAN	<i>Assistant Professor of Social Science</i>
Ph.D., Ohio State Univ.	
GRAHAM, EDWARD W.....	<i>Professor of Chemistry</i>
Ph.D., Univ. of California	
GRANGER, GREGORY P.	<i>Assistant Professor of Social Science</i>
Ph.D., Northeast Louisiana Univ.	
GREEN, KENNETH.....	<i>Assistant Professor of Music</i>
M.M., Univ. of Kansas	<i>Assistant Band Director</i>

GREEN, SUZANNE.....	<i>Assistant Professor of English</i>
Ph.D., Univ. of North Texas	
GREGORY, HIRAM F., JR.	<i>Professor of Anthropology</i>
Ph.D., Southern Methodist Univ.	
GULLATT, DAVID E.	<i>Assistant Professor of Education</i>
Ph.D., Univ. of Kansas	
HAILEY, TOMMY I.	<i>Assistant Professor of Anthropology</i>
Ph.D., Texas A&M Univ.	
HAIR, JAMES G.	<i>Adjunct Professor of Medical Technology</i>
M.D., Louisiana State Univ.	
HALBROOK, MIKE.....	<i>B.S.R.T., Radiology Technology</i>
B.S., Louisiana State Univ.	
HALL, HURST M.	<i>Professor of Educational Psychology</i>
Ph.D., Univ. of Alabama	
HALL, THOMAS M.	<i>Associate Professor of Industrial Technology</i>
M.S., Stanford Univ.	
HAMMER, JOHN	<i>Assistant Professor in the Library</i>
M.L.I.S., Univ. of Texas	
HANDY, SHERYL.....	<i>Adjunct Instructor of Medical Technology</i>
M.Ed., Louisiana State University, MT(ASCP)	
HANSEN, CATHERINE.....	<i>Assistant Professor</i>
Ph.D., Univ. of Rhode Island	
HANSON, THOMAS.....	<i>Associate Professor of Mathematics;</i>
Ph.D., Univ. of Georgia	<i>Dean of Graduate Studies and Research</i>
HARTT, CAROLYN	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, Univ. of Southern Mississippi	
HATLEY, DONALD W.....	<i>Professor of English;</i>
Ph.D. East Texas State Univ.	<i>Dean of Liberal Arts, Director, Folklife Center</i>
HAWKINS, MICHAEL W.....	<i>Instructor of Science</i>
M.Ed., NSU	
HAYES, BETH H.	<i>Associate Professor of Nursing;</i>
M.Ed., NSU	<i>Coordinator of Student Services, Nursing Education Center</i>
HAYS, TIMOTHY.....	<i>Assistant Professor of Education</i>
Ph.D., Univ. of Oklahoma	
HECKAMAN, KELLY.....	<i>Assistant Professor of Education</i>
Ph.D., Ohio State Univ.	
HENDERSON, MARTHA.....	<i>Professor in the Library</i>
Ed.D., Univ. of Arkansas	
HILLEBRAND, JOHN D.	<i>Assistant Professor of Sociology</i>
Ph.D., Univ. of California at San Diego	
HIMAYA, JOANN	<i>Associate Professor of Nursing</i>
Ph.D., Texas Woman's Univ.	
HIRSHFIELD, LOUIS R.	<i>Assistant Professor of Piano</i>
D.M.A., Univ. of Colorado	
HORTON, STEVEN G.	<i>Assistant Professor of Journalism</i>
M.S., Louisiana State Univ.	
HOWELL-MARONEY, BETTE H.....	<i>Assistant Professor of Home Economics</i>
M.Ed., Northeast Louisiana State Univ.	
HUNT, KEITH W.	<i>Assistant Professor of Military Science</i>
B.A., Clemson Univ.	
HUNT, SALLY N.	<i>Professor of Home Economics</i>
Ph.D., Texas Woman's Univ.	

HUNT, WILLIAM A.	<i>Professor of Music</i>
Ed.D., North Texas State Univ.	
HYDE, H. WAYNE	<i>Professor of Chemistry;</i>
Ph.D., Tulane Univ.	<i>Coordinator, Chemistry and Physics Department</i>
INGRAM, LUCILE W.	<i>Assistant Professor of English</i>
M.A. in Ed., M.S. in Ed., NSU	
INMAN, DUANE	<i>Associate Professor of Education</i>
Ph.D., Univ. of South Florida	
ISBELL, TERRY	<i>Assistant Professor of Psychology;</i>
M.A., Middle Tennessee State Univ.	<i>Head Department of Psychology</i>
JACKSON, TERRY W.	<i>Assistant Professor of Business</i>
Ed.D., Univ. of Kentucky	
JARRED, ADA D.	<i>Professor in the Library; Director of Libraries</i>
Ph.D. Texas Woman's Univ.	
JOHNSON, CHARLIE L.	<i>Instructor of Health,</i>
M.Ed., Univ. of Southwestern Louisiana	<i>Physical Education and Recreation</i>
JOHNSON, MAXINE R.	<i>Associate Professor of Nursing</i>
M.S., Univ. of Maryland	
JONES, CONSTANCE	<i>Instructor of Family and Consumer Sciences</i>
M.B.A., Northeast Louisiana Univ.	
JONES, DOROTHY W.	<i>Instructor of Business</i>
M.B.A., Univ. of Wisconsin	
JONES, ROBERT C.	<i>Assistant Professor of Business</i>
Ph.D., Univ. of California at Los Angeles	
JOYE, MAXIE L.	<i>Assistant Professor of Military Science</i>
B.A., Saint Augustine College	
KEENAN, CHARLES	<i>Associate Professor of Sociology</i>
M.A., Sam Houston State Teachers College	
KELLY, MELISSA	<i>Instructor of Mathematics</i>
M.S.Ed, Loyola Univ.	
KEVIL, TERESA T.	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, Univ. of Arkansas	
KHER, NEELAM	<i>Associate Professor of Educational Psychology</i>
Ph.D., Michigan State Univ.	
KILCOYNE, MARGARET	<i>Instructor of Business</i>
M.S. Ed., NSU	
KING, DAVID	<i>Chief Flight Instructor</i>
M.A., Louisiana Tech Univ.	
KNOWLTON, KELLY	<i>Assistant Professor of Physics</i>
Ph.D., Texas A&M Univ.	
KROMIS, STEPHEN	<i>Associate Professor of Business</i>
D.B.A., Louisiana Tech Univ.	
KRUSE, DWAYNE	<i>Instructor of Biology</i>
Ph.D., Florida State Univ.	
LACINA-GIFFORD, LORNA J.	<i>Associate Professor of Education</i>
Ed.D., Texas A&M Univ.	
LAND, MICHAEL A.	<i>Assistant Professor of Biology</i>
Ph.D., Louisiana State Univ.	
LANDON, LEROY E.	<i>Assistant Professor in the Library;</i>
M.Ed., M.S. in L.S., Louisiana State Univ.	<i>Head, Catalog Division</i>
LANDRY, ABBIE V.	<i>Assistant Professor in the Library;</i>
M.S. in L.S., Univ. of Tennessee	<i>Head, Reference Division</i>

LANDRY, KAREN	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, NSU	
LANE, ROXANE	<i>Instructor of Mathematics</i>
M.Ed. Louisiana State Univ.	
LAUTERBACH, DEAN	<i>Assistant Professor of Psychology</i>
Ph.D., Purdue Univ.	
LEATHERS, EDWIN W. JR.	<i>Assistant Professor of Military Science</i>
B.A. Central Michigan Univ.	
LEBRETON, MARIETTA M.	<i>Professor of History</i>
Ph.D., Louisiana State Univ.	
LEWIS, SAMUEL	<i>Instructor in Sociology</i>
B.A., Centenary College	
LIN, JAMES C.	<i>Professor of Biology</i>
Ph. D., North Carolina State Univ.	
LOSNESS, JAMES A.	<i>Instructor of Aviation</i>
B.S., University of Wisconsin	
McBRIDE, CHERYL	<i>Instructor of Home Economics;</i>
M.S., NSU	<i>Director, Child Development Center</i>
McBRIDE, RONALD	<i>Associate Professor of Education;</i>
Ph.D., Georgia State Univ	<i>Head, Department of Journalism</i>
McCOLE, MARY R.	<i>Adjunct Instructor of Medical Technology</i>
M.H.S., Louisiana State Univ., MT(ASCP)	
McCORKLE, DEANN D.	<i>Associate Professor of Speech</i>
Ph.D., Univ. of Illinois	
McCORKLE, JAMES L., JR.	<i>Professor of History</i>
Ph.D., Univ. of Mississippi	
McCOY, LANCE	<i>Clinical Instructor of Radiologic Technology</i>
B.S., NSU	
McDERMOTT, DENNETTE	<i>Assistant Professor of Music</i>
D.M.A, Univ. North Texas	
McDONALD, JULIE	<i>Assistant Professor of Business</i>
M.Ed., NSU	
McGEHEE, JOY	<i>Assistant Professor of Education</i>
Ph.D., Univ. of Arizona	
McHALE, MAUREEN A.	<i>Professor of Psychology</i>
Ph.D., Illinois Institute of Technology	
McMILLAN, CATHERINE	<i>Instructor of Health and Human Performance</i>
M.P.H., Univ. of Southern Mississippi	
McVEY, JACKIE	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, Univ. of California	
MALONE, ANN	<i>Associate Professor of History</i>
Ph.D., Tulane Univ.	
MARLOW, LESLIE	<i>Associate Professor of Education</i>
Ed.D., Univ. of Alabama	
MARTIN, ROXANNE K.	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, NSU	
MASSIE, MONIKA F.	<i>Assistant Professor of Health and</i>
Ph.D., Univ. of Arkansas	<i>Human Performance</i>
MATHIS, WILLIAM	<i>Associate Professor of Music</i>
A.M.D., Univ. of Michigan	
MAZIARZ, DOROTHY	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, Texas Woman's Univ.	

MEANS, JAMES	Associate Professor of English
Ph.D., Univ. of Virginia	
MIDDLEBROOKS, MARY ALICE	Assistant Professor of Nursing
M.S. in Nursing, NSU	
MILLER, JEANETTE	Assistant Professor of Nursing
M.S. in Nursing, NSU	
MISURACA, SAM A	Associate Professor of Agriculture
Ph.D., Louisiana State Univ.	
MOLSTAD, SUSAN M	Professor of Health,
Ed.D., Univ. of North Carolina	Physical Education and Recreation
MOORE, DEBORAH	Assistant Professor of Nursing
M.S. in Nursing, NSU	
MORRIS, JOE	Assistant Professor of Criminal Justice
M.S., Grambling State Univ.	
MORRIS, NANCY T	Professor of Special Education
Ed.D., Univ. of Alabama	
MOULTON, MICHAEL	Associate Professor of Health and Human
Ed.D. Univ. of Southern Mississippi	Performance
MOULTON, PATRICE	Assistant Professor of Psychology
Ph.D., Univ. of Southern Mississippi	
MURPHY, RIVERS C	Professor of Art
M.F.A., Texas Christian Univ.	
MURPHY, VICTORIA	Assistant Professor of Social Science
MSW, Univ. of Southern Mississippi	
MYERS, LEIGH ANN	Assistant Professor of Mathematics
Ph.D., Louisiana State Univ.	
NORMAN, PARALEE F	Professor of English
Ph.D., Univ. of Iowa	
OBERLE, ANN W	Assistant Professor of Nursing
M.S. in Nursing, Emory Univ.	
O'LEARY, ELAINE	Associate Professor of Nursing
M.S. in Nursing, Univ. of Alabama	
PACE, JACKY WAYNE	Associate Professor of
Ph.D., Univ. of Missouri	Agriculture and Animal Science
PALCO, JEFFREY B	Associate Professor of Business
Ph.D., Texas A & M University	
PARKER, TANYA	Assistant Professor of Nursing
M.S. in Nursing, NSU	
PARRISH, VICKI P	Assistant Professor of Theatre
PH.D., Louisiana State Univ.	
PEARCE, CORINNE	Assistant Professor in the Library/Ft. Polk
Ed.S., Northeast Louisiana Univ.	
PEARSON, FRANCES C.	Assistant Professor of Education
Ph.D., Ohio State Univ.	
PERKINS, BETTY L	Assistant Professor of Nursing
M.S. in Nursing, NSU	
PETERS, CAROL G.	Associate Professor of Nursing
M.S. in Nursing, NSU	
PIERCE, SUSAN T.	Assistant Professor of Nursing
M.S. in Nursing, NSU	
PIERSON, PATRICIA	Assistant Professor
M.S., NSU	Head, Department of Family and Consumer Sciences

PIPPIN, ROLAND N.	Professor of Sociology
Ph.D., Virginia Polytechnic Inst. and State Univ.	
PITT, DUDLEY R., JR.	Associate Professor of Mathematics
M.A., Louisiana State Univ.	
PLANCHOCK, NORANN	Professor of Nursing, Dean of Nursing
Ph.D. Texas Woman's Univ.	
PLITNICK, KATHERINE R.	Assistant Professor of Nursing
M.S.N., NSU	
POE, LAINE O.	Adjunct Instruction of Medical Technology
B.S., Louisiana College, MT(ASCP)	
POLLACIA, LISSA F.	Associate Professor of Computer Science
Ph.D., Univ. of Southwestern Louisiana	
PONDER, LAURA	Instructor of Science
M.Ed., NSU	
POOLE, DAN	Instructor of Mathematics
M.S., Louisiana State Univ.	
PRATT-PANFORD, COMFORT	Instructor of Spanish
M.A., Texas A&M Univ.	
PRICE, JOHN MILTON	Associate Professor of History
M.A., Louisiana State Univ.	
RACHAL, RUTH M.	Assistant Professor of Nursing
M.S. in Nursing, NSU	
RAGSDALE, RONALD	Professor of Education
Ph.D., Univ. of Wisconsin	
RAZOVSKY HELAINE D.	Assistant Professor of English
Ph.D., Boston Univ.	
REEVES, MARY E.	Assistant Professor of Education
Ph.D., Louisiana State Univ.	
REILLY, BARBARA	Assistant Professor in the Library; Head, Library, Shreveport Division
REPPOND, BARBARA	Assistant Professor of Nursing
M.S.Ed., Univ. of Central Arkansas	
ROACH, LINDA	Assistant Professor of Science
Ph.D., Louisiana State Univ.	
ROACH, SCOTT S.	Assistant Professor of Business
Ph.D., Louisiana State Univ.	
RODRIGUEZ, GALINDO	Assistant Professor of Music
M.M.Ed., Univ. of North Texas	
ROREX, MICHAEL	Assistant Professor of Creative and Performing Arts
M.M., Indiana Univ.	
ROSE, RICHARD D.	Associate Professor of Music
M.M., Florida State Univ.	
ROSS, GARRY	Associate Professor of English Head, Department of Language and Communication
Ph.D., Texas A&M Univ.	
RUBINO, ELIZABETH ANN	Professor of French
Ph.D., Case-Western Reserve Univ.	
RUDD, MARTIN D.	Assistant Professor of Chemistry
Ph.D., Univ. of Warwick	
RUSHING, BEN H., JR.	Associate Professor of Mathematics; Coordinator, Mathematics Department
Ph.D., Univ. of Southern Mississippi	
RYAN, DONALD E.	Professor of Mathematics
Ph.D., Univ. of Texas	

SANDERS, TERRIE S. M.M., NSU	<i>Instructor of Music</i>
SCALFANI, MARIO Ed.D., Univ. of San Francisco	<i>Assistant Professor of Education</i>
SCHEFFLER, ANTHONY Ph.D., Univ. Southern Mississippi	<i>Assistant Graduate Dean Assistant Professor of Education</i>
SEIGLER, PHYLLIS S. M.M., Indiana Univ.	<i>Associate Professor of Music</i>
SERIO, FRANK Ph.D., Univ. of Texas	<i>Assistant Professor of Mathematics</i>
SEYMOUR, DAN Ph.D., Univ. of Mississippi	<i>Assistant Professor of Psychology; Executive Director, Academic and Student Services/Shreveport Campus</i>
SHEEHAN, MICHAEL Ph.D., State Univ. of New York at Buffalo	<i>Assistant Professor Anthropology</i>
SHELTON, DEBRA M.S. in Nursing, NSU	<i>Assistant Professor of Nursing</i>
SHOOP, DAVID M. Ph.D., Univ. of Nebraska	<i>Assistant Professor of Chemistry</i>
SIMMONS, PAMELA Ph.D., Texas Woman's University	<i>Associate Professor of Nursing</i>
SIMPSON, CLAUDE Ph.D., Georgia State University	<i>Professor of Business</i>
SIMPSON, PENNY D.B.A., Louisiana Tech Univ.	<i>Associate Professor of Business</i>
SINGH, UALETTA M.S. in Nursing, NSU	<i>Assistant Professor of Nursing</i>
SMILEY, BARRY A. D.B.A. Louisiana Tech Univ.	<i>Professor of Business; Dean of Business</i>
SMITH, KATHLEEN Ph.D., Louisiana State Univ.	<i>Assistant Professor of History</i>
SMITH-PEDERSON, LISA M.S. in Nursing, NSU	<i>Assistant Professor of Nursing</i>
SMITH, TONY C. M.M., Catholic Univ.	<i>Associate Professor of Music</i>
SPEER, ROXANNE M.S. in Nursing, NSU	<i>Assistant Professor of Nursing</i>
STACY, JAMES Ph.D., New York University	<i>Assistant Professor of Theatre</i>
STALLING, DICK T. Ph.D., Univ. of Oklahoma	<i>Professor of Biology; Coordinator, Biological Sciences Department</i>
STEVENS, LaRUE M.D., Louisiana State Univ.	<i>Adjunct Instructor of Medical Technology</i>
STICKER, LEEANN Ph.D., Louisiana State Univ.	<i>Assistant Professor of Biology</i>
SUTTON, CHRISTOPHER Ph.D., Univ. of Denver	<i>Assistant Professor of Social Science</i>
SWAIN, MARY M.A., Univ. of Alabama	<i>Instructor of English</i>
SWAIN, WILLIAM Ph.D., Univ. of Alabama	<i>Assistant Professor of Journalism</i>
TARVER, MARY BETH M.S.Ed., NSU	<i>Instructor of Computer Science</i>

TEMPLE, AUSTIN L.....	<i>Professor of Mathematics; Dean of Science and Technology</i>
Ph.D. George Peabody College for Teachers	
TAYLOR, MAXINE F.....	<i>Professor of History</i>
Ph.D., Univ. of Oklahoma	
THEUS, SHELISA.....	<i>Instructor of English</i>
M.A., NSU	
THOMAS, FLEMING.....	<i>Assistant Professor in the Library</i>
M.L.S., Louisiana State Univ.	
THOMPSON, WANDA.....	<i>Associate Professor of Nursing</i>
Ed.D., Nova Univ.	
THREATT, PATRICIA.....	<i>Assistant Professor in the Library</i>
M.L.I.S., Univ. of Texas	
TOLLETT, JOHN.....	<i>Assistant Professor of Education;</i> <i>Acting Dean of Education</i>
Ed.D., Northeast Louisiana Univ.	
TOUSSAINT, ROOSEVELT.....	<i>Instructor of Mathematics</i>
M.S., NSU	
TRICHE, CLAUDIA M.....	<i>Associate Professor of Social Work</i>
M.S.W., Louisiana State Univ.	
TYLER, WADE.....	<i>Assistant Professor in Social Work</i>
M.S.S.W., Univ. of Louisville	
VARNADO, LARRY A.....	<i>Instructor of Aviation Science;</i> <i>Coordinator, Aviation Science</i>
B.A., NSU	
VEULEMAN, ROMA.....	<i>Instructor of Mathematics</i>
M.Ed., NSU	
VIERS, CHARLES E. JR.....	<i>Associate Professor of Biology</i>
Ph.D., Univ. of Arizona	
VOGEL, H. SHERMAN.....	<i>Assistant Professor of Industrial Technology</i>
Ed.S., NSU	
WALKER, SHARON.....	<i>Assistant Professor in Nursing</i>
M.S. in Nursing, NSU	
WALLACE, NELDA SUSAN.....	<i>Instructor of English</i>
M.A., NSU	
WALLACE, RAY.....	<i>Professor of English</i>
D.A., Illinois State Univ.	
WANN, JACK.....	<i>Professor; Theatre Director</i>
Ph.D., Louisiana State Univ.	
WEAVER, SUE W.....	<i>Associate Professor of Education;</i> <i>Dean of General College</i>
Ph.D., Louisiana State Univ.	
WEBB, DIANE.....	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, Univ. of Texas at Arlington	
WEBB, RANDALL J.....	<i>Professor of Mathematics; President</i>
Ed.D., Univ. of Southern Mississippi	
WERNET, MARY L.....	<i>Assistant Professor in the Library</i>
M.A. NSU	
WHITE, GARY D.....	<i>Associate Professor of Physics</i>
Ph.D., Texas A&M Univ.	
WHITE, SUSAN C.....	<i>Assistant Professor of Business</i>
Ph.D., Texas A&M Univ.	
WHITEHEAD, THOMAS N.....	<i>Associate Professor of Journalism</i>
M.S., Boston Univ.	
WIED, ALEXANDER F.....	<i>Associate Professor of Industrial Technology</i>
Ed.D., North Texas State Univ.	

WIED, MELBA	<i>Instructor of English/Ft. Polk</i>
M.Ed., North Texas State Univ.	
WIGGINS, CYNTHIA	<i>Instructor of English</i>
M.Ed. Northeast Louisiana Univ.	
WILKERSON, MARY LYNN	<i>Instructor; Small Business</i>
M.B.A., NSU	<i>Development Center Director</i>
WILKES, C. NEWTON	<i>Professor; Head, Department of Health and</i>
Ed.D., NSU	<i>Human Performance</i>
WILLIAMS, JOHN G.	<i>Assistant Professor of Business</i>
J.D., Tulane University	
WILLIAMS, KENNETH L.	<i>Professor of Biology</i>
Ph.D., Louisiana State Univ.	
WISSING, VICKIE	<i>Assistant Professor of Nursing</i>
M.S. in Nursing, NSU	
WOODARD, BRENDA R.	<i>Associate Professor of Veterinary Technology</i>
D.V.M., Louisiana State Univ.	
WOODS, LYNN	<i>Assistant Professor Family and Consumer Science</i>
Ph.D., Univ. of Southern Mississippi	
WORLEY, JOEL	<i>Professor of Business</i>
Ph.D., Virginia Polytechnic Institute & State Univ.	
YANKOWSKI, MICHAEL T.	<i>Associate Professor of Art</i>
M.F.A., Louisiana Tech Univ.	
YOUNG, ARNOLD	<i>Clinical Instructor and Director of</i>
B.S., NSU	<i>Radiologic Technology</i>

LOUISIANA SCHOLARS' COLLEGE FACULTY

BALLENGER, GRADY W.	<i>Professor of English</i>
Ph.D., Univ. of North Carolina	
COCHRAN, MARGARET	<i>Acting Director and Assistant</i>
Ph.D. Univ. of Tennessee, Knoxville	<i>Professor of Mathematics</i>
COLE, KAREN L.	<i>Associate Professor of English</i>
Ph.D., Univ. of Illinois	
FRANCIS, CHARLES	<i>Assistant Professor of Chemistry</i>
Ph.D., Univ of Oklahoma	
JENSON, RICHARD B.	<i>Associate Professor of History</i>
Ph.D., Univ. of Minnesota	
KELLER, NADYA C.	<i>Professor of Chemistry</i>
Ph.D., Univ. of Oklahoma	
NEWTON, SUSAN L.	<i>Assistant Professor of Sociology</i>
Ph.D., Purdue Univ.	
PHIFER, CURTIS B.	<i>Associate Professor of Biology</i>
Ph.D., Univ. of Kentucky	
PRINCE, STEVEN J.	<i>Assistant Professor of Economics</i>
Ph.D., Univ. of Utah	
SCHICKETANZ, FRANK	<i>Associate Professor of German</i>
Ph.D., Univ. of Tubingen	
SNOWDEN, Barnard F.	<i>Professor of Philosophy</i>
Ph.D. Tulane Univ.	
THOMAS, JEAN D'AMATO	<i>Professor of Classics</i>
Ph.D., Johns Hopkins Univ.	
WOLFFE, LISA K.	<i>Assistant Professor of French</i>
Ph.D., Univ. of Texas	

NORTHWESTERN LABORATORY SCHOOL

BERRY, JIMMY D.	Principal, Middle Lab School
M.A., NSU	
MURPHY, ELWANDA B.	Principal, Elementary Lab School
Ed.D., NSU	
BOSTICK, LISA	First Year Level
M.Ed., NSU	
BREEDLOVE, PHILLIS	First Year Level
M.Ed., NSU	
COLE, CYNTHIA	Fifth Year Level
B.S., Elem. Ed., NSU	
CREIGHTON, SUE	Gifted
M.Ed., NSU	
CREW, JACQUELYN	Gifted
M.Ed., NSU	
EBARB, SHARON STOKER	Librarian, 6th, 7th, 8th Year Level
M.L.S., LSU	
GIANFORTE, FRED	Art, 6th, 7th, 8th Year Level
M.Ed., NSU	
GRESHAM, PATRICIA	Counselor, Language Arts, 7th Level
M.Ed., NSU	
HAMILTON, THERESA	Mathematics, 6th, 7th, 8th Year Level
M.S. Ed., NSU	
HOOD, CAROL	Music
M.M., NSU	
INGRAM, BRENDA	Resources
M.Ed., NSU	
JOHNSON, BURLEY	Physical Education, 6th, 7th, 8th Year Level
M.Ed., NSU	
JOHNSON, CINDY	Librarian
M.Ed., NSU	
JOHNSON, LAFERN	Gifted
M.Ed., NSU	
McBRIDE, DEBORAH ANN J.	Third Year Level
M.Ed., Univ. of Georgia	
McCLUNG, PHILLIP	Language Arts and Social Studies, 8th Year Level
M.Ed., NSU	
MELDER, CONNIE	Language Arts and Social Studies, 6th Year Level
M.Ed., NSU	
MORGAN, PANSY	Fifth Year Level
M.Ed., NSU	
PEROT, DONNA	Language and Reading, 7th Year Level
B.S., NSU	
POSEY, EVIE	Second Year Level
M.Ed., NSU	
REMO, MARJORIE	Second Grade Level
M.Ed., Grambling State Univ.	
RIGDON, JUDITH M.	Kindergarten
Ed.S., NSU	
ROBINSON, KATHLEEN	Mathematics and Science, 8th Year Level
M.Ed., NSU	

SAWYER, ANNIE LEE	<i>Fourth Year Level</i>
M.Ed., NSU	
SEPULVADO, BILLIE	<i>Physical Education</i>
M.S., NSU	
SHIELDS, LOIS	<i>Science, 6th, 7th, 8th Year Level</i>
M.Ed., NSU	
SHIRLEY, JODY	<i>Third Year Level</i>
M.A., NSU	
SMITH, SUSAN	<i>Gifted</i>
M.Ed., NSU	
SUTTON, CATHY	<i>Speech Therapist</i>
M.Ed., NSU	
WALKER, PAM	<i>Fourth Year Level</i>
M.Ed., NSU	
WALKER, PATRICIA ANN	<i>Kindergarten</i>
M.Ed., NSU	
WARREN, DEBRA	<i>Gifted</i>
M.Ed., Centenary College	
WHEELER, PAT	<i>Third Year Level</i>
M.Ed., Memphis State University	

INDEX

A

Academic bankruptcy 30

Academic Colleges and Departments

College of Business 43

College of Education 47

General College 64

General Studies 64

College of Liberal Arts 67

Creative and Performing Arts 68

Journalism 72

Language and Communication 73

Psychology 75

Social Sciences 76

College of Nursing 83

College of Science and Technology 93

Biological Sciences 94

Chemistry and Physics 98

Family and Consumer Sciences 100

Health and Human Performance 104

Industrial Technology 106

Mathematics 108

Military Science 109

Academic regulations 27

Academic skills course 138

Accounting

courses 138

curriculum 43

minor 43

Accreditation 11

ACT score 14

Activities, student 41

Adding, dropping, repeating, and substituting course 27

Administrative officers 247

Admission requirements 14

Advertising Design curriculum 69

Agriculture courses 139

Allied Health courses 139

Animal Science courses 139

Anthropology

courses 140

curriculum 77

minor 76

Appeal for readmission 29

Appeal of reported grade - Graduate 136

Appeal of reported grade - Undergraduate 31

Art

courses 141

curricula 68

minor 68

Assessment

General Education 22

Major Fields of Study 22

Associate degree requirements 23

Athletic Training minor 104

Athletics, eligibility 42

Attendance regulations 27

Auditing courses 24

Aviation Science

courses 143

curricula 65

minor 94

Aviation Technology courses 145

B

Biology

core requirements 94

courses 147

curriculum 94

minor 94

Biology concentration (Science Education) 50

Board of Regents 245

Board of Trustees 246

Botany courses 148

Broadcasting concentration 73

Business and Office Education concentration 49

Business Administration

courses 148

curricula 44

minor 44

Business Education courses 149

C

Calendar, Academic, 1997-1998 4

Catalog policy 22

Certificate of Excellence 23

Certification areas 54

Certification, program leading to 54

Chemistry

courses 149

curriculum 99

minor 98

Chemistry concentration (Science Education) 51

Child Development curriculum 66

Classification of students 25

Collegiate Program 15

Computer courses 152

Computer Information Systems

courses 152

curriculum 45

minor 45

Computer Science

courses 153

concentration 99

Consumer Services concentration 101

Continuing Education 41

Cooperative Occupational Work Program 26

Cooperative Occupations Experience

courses 154

Core requirements, University 21

Correspondence credit 33

Counseling

courses 154

concentration requirements 59, 62

Courses of instruction, listing and interpretation of 138

Credit by examination 33

Criminal Justice

courses 156

curricula 77

minor 77

D

Dance	
courses.....	156
minor.....	72
Degrees awarded.....	10
Developmental Education.....	25
Disabilities, Services for Students.....	42
Discipline.....	39
Dismissal from classes.....	27
Distributive and Business Education	
concentration.....	49
Distributive Education	
courses.....	159
Dropping courses.....	27

E

Early Admission Program.....	15
Early Childhood Education.....	102
courses.....	159
curriculum.....	102
Economics	
courses.....	160
minor.....	44
Education courses.....	161
Education-Adult and Continuing	
courses.....	167
Educational Leadership	
courses.....	167
concentration requirements.....	59, 62
Educational Media courses.....	168
Educational Psychology courses.....	169
Educational Technology	
courses.....	170
concentration requirements.....	61, 63
Electronic Engineering Technology	
courses.....	171
curriculum.....	106
minor.....	106
Electronic Technology curriculum.....	107
Elementary Education curricula.....	47
Employment, student.....	17
Engineering Technology	
courses.....	171
English	
courses.....	173
curricula.....	74
minor.....	74
English policy, freshman.....	24
Environment courses.....	177
Equal Opportunity.....	11
Examinations	
advanced placement.....	33
advanced standing.....	34
CLEP.....	33
departmental.....	33
semester.....	32
Extra-curricular activities policy.....	34

F

Faculty Advisors.....	23
Faculty listing.....	248

Family and Consumer Sciences

courses.....	177
concentration areas.....	101
minor.....	101
Fashion merchandising concentration.....	101
Fees and expenses.....	38
Finance courses.....	179
Financial aid.....	17
Fine Arts course.....	179
Forestry courses.....	179
Fort Polk Center.....	9
French	
courses.....	179
minor.....	75
Freshman English policy.....	24
Full-time student definition.....	25

G

General curriculum.....	26
General Studies.....	64
associate degree requirements.....	65
bachelor degree requirements.....	64
Geography courses.....	180
Geology courses.....	181
German	
courses.....	182
minor.....	75
Glossary.....	7
Grades and quality points.....	31
Graduate Record Examination.....	130
Graduate Studies.....	130
admission.....	130
master's degree.....	131
specialist in education degree.....	133
Graduation, general requirements.....	21
Graduation with special honors.....	36

H

Health Education courses.....	182
Health and Exercise Science concentration.....	104
Health Promotion concentration requirements.....	105
Historic Preservation	
courses.....	183
minor.....	78
History	
courses.....	184
curriculum.....	78
minor.....	78
History of the University.....	8
Home Economics curricula.....	101
Honor List.....	35
Honors colloquia.....	35
Honors, graduation with.....	36
Honors Program, scholastic.....	35
Hospitality Management and Tourism	
courses.....	187
curriculum.....	103
Hospitality Services concentration.....	103
Hours pursued definition.....	25
Housing and Interiors concentration.....	101
Housing and living accommodations.....	38
Humanities courses.....	188

I

Incomplete grades.....	31
Industrial Arts Education concentration.....	50
Industrial Technology	
courses.....	188
curriculum.....	107
minor.....	107
Intercollegiate athletics.....	42
staff.....	247
International Student Exchange Program.....	26
International students, admission of.....	16
Intramural program.....	41

J

Japanese courses.....	192
Journalism	
courses.....	193
curriculum.....	73
minor.....	73

L

Laboratory courses, policy.....	138
Laboratory schools faculty.....	260
Legal Assistant Program courses.....	196
Library Education courses.....	195
Loans, student.....	17
Location of the University.....	8
Louisiana Scholars' College.....	111
courses.....	116
faculty.....	259

M

Major, second.....	22
Management	
courses.....	195
minor.....	44
Marketing	
courses.....	196
minor.....	44
Mathematics	
courses.....	197
curricula.....	108
minor.....	108
Maximum work load.....	24
Medical Technology	
courses.....	200
curriculum.....	95
Merchandising courses.....	201
Microbiology	
courses.....	201
minor.....	94
Military Educational Experiences credit.....	34
Military obligations.....	26
Military Science	
courses.....	202
minor.....	110
program.....	109
Minimum work load.....	24
Mission of the University.....	9

Music

courses.....	203
curricula.....	70
minor.....	69

N

National Collegiate Athletic Association.....	42
National Teachers Examination.....	56
required scores.....	57
News Editorial concentration.....	73
Nursing	
courses.....	208
curricula.....	87
graduate studies.....	88
special policies.....	83
Nutrition courses.....	213

O

Office Administration	
courses.....	214
curriculum.....	46
Organizations, student.....	41
Orientation courses.....	214

P

Part-time student definition.....	25
Philosophy	
courses.....	215
minor.....	79
Photography	
courses.....	215
minor.....	72
Physical Education	
courses.....	216
curriculum.....	104
Physical Therapy.....	98
Physics	
courses.....	219
curriculum.....	100
minor.....	99
Physics concentration (Science Education).....	51
Plant and Soil Science courses.....	221
Political Science	
courses.....	222
curriculum.....	79
minor.....	79
Pre-agriculture.....	95
Pre-dentistry.....	96
Pre-engineering.....	108
Pre-forestry.....	96
Pre-law.....	82
Pre-major requirements.....	24
Pre-medicine.....	96
Pre-occupational therapy.....	96
Pre-optometry.....	96
Pre-pharmacy.....	97
Pre-respiratory therapy.....	97
Pre-veterinary medicine.....	97
Probation regulations.....	29

Psychology	
courses	223
curriculum	75
minor	75
Public Relations concentration	73

Q

Quality Points	31
----------------	----

R

Radiologic Technology	
admission to program	89
courses	226
curriculum	92
Reading	
courses	222
concentration requirements	60
Readmission regulations	29
Records policy, student	39
Recreation Administration concentration	103
Recreational facilities	41
Refund policy	29
Registration	23
fees, payment of	38
in a curriculum	22
for graduation only	25
late	24
Repeating courses	27
Reserve Officers' Training Corps	109
Residence requirements	7, 36
Resignation policy	28
Responsibility, student	21

S

Scholars' College	111
Scholarships	19
Science courses	229
Science Education curriculum	50
Second Degree requirements	22
Second major	22
Secondary Teaching degree requirements	48
Security	38
Servicemembers Opportunity College	35
Social Science	
curricula	80
minor	80
Social Studies courses	230
Social Work	
courses	230
curriculum	80
Sociology	
courses	231
curriculum	81
minor	81
Space Science	
courses	232
concentration	99
Spanish	
courses	233
minor	75

Special Education

courses	233
curricula	53
Speech	
courses	236
minor	75
Sport Administration degree requirements	105
Statistics courses	237
Student record policy	39
Student life	38
Student Personnel Services	
courses	237
degree requirements	63
Student Teaching	56
Substituting courses	27
Suspension regulations	29

T

Teacher certification	54
Theatre	
courses	238
curriculum	72
minor	71
TOEFL scores	16
Transcripts	32
Transfer student policy	14
Transferred credit	32
Travel and Tourism concentration	103

U

University, admission to	14
University core requirements	21
University	
history of	8
location of	8
mission of	9

V

Veterans, credits granted to	34
Veterinary Technology	
courses	240
curriculum	98

W

Wildlife Management concentration	94
-----------------------------------	----

Z

Zoology courses	241
-----------------	-----

Northwestern State University Bulletin (USPS 397-940)
Natchitoches, Louisiana 71497-0002

Postage Paid By
Northwestern State University
Natchitoches, LA 71497-0002